

A STUDY OF THE TYPE SPECIMENS OF BIRDS IN THE COLLECTION OF  
THE ACADEMY OF NATURAL SCIENCES OF PHILADELPHIA,  
WITH A BRIEF HISTORY OF THE COLLECTION.

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The ornithological collection of the Academy of Natural Sciences of Philadelphia has long been known as one of the largest and most important in the world. It was reported by Dr. P. L. Selater in 1857 to be "superior to that of any museum in Europe and therefore the most perfect in existence."<sup>1</sup>

Early ornithological activity in America naturally centred around this collection, and we find the names of all our earlier ornithologists connected with the Academy specimens, while the majority of their publications appeared in the *Proceedings* of the society.

Having been engaged for some years in cataloguing the collection and in identifying the type specimens which it contains, I wish to present in the present contribution the results of my investigations in order to record exactly what types are preserved, and the probable history of others which were supposed to be in this collection. The collection of birds was begun soon after the foundation of the Academy in 1812, and by the year 1837 contained about 1,000 specimens; these were contributed by various members, among whom Dr. Harlan, Dr. Trudeau and J. K. Townsend are best known to ornithologists, though Dr. Thomas McEwen seems to have been most active in the care of the collection.

During the succeeding ten years the additions amounted to about 550 specimens, received from John Cassin, S. F. Baird, A. L. Heermann, S. W. Woodhouse, Dr. Watson and R. C. Taylor.

In 1846 Dr. Thomas B. Wilson, afterwards President of the Academy, became interested in the collection, and took steps to enlarge it at his own expense. He entered into arrangements with a European dealer to furnish him with specimens of such species

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<sup>1</sup> *Proc. Zool. Soc. London*, 1857, p. 1, "Notes on the Birds in the Museum of the Acad. of Nat. Sci. Phila." An interesting account of the collection.

as the Academy lacked in lots of one hundred at so much per specimen, but upon asking the advice of Dr. J. E. Gray, of the British Museum, as to the terms asked, he was strongly advised to abandon this plan and to purchase an entire collection, several of which were then on the market, that of Victor Massena, Duc de Rivoli, Prince d'Esling, being especially recommended.

Accordingly Dr. Gray was authorized to proceed to Paris and secure the collection, which he promptly did, much to the chagrin of De Blainville and other French naturalists, who had fully expected that the French government would purchase the collection.<sup>2</sup>

The Rivoli collection, numbering about 12,500 specimens, arrived in Philadelphia in September, 1846, and was deposited by Dr. Wilson with the Academy; the old collection being merged with it.<sup>3</sup>

Dr. Wilson followed this purchase with that of the Bourcier collection of Parrots and Tanagers, while his brother, Mr. Edward Wilson, of London,<sup>4</sup> who was also interested in building up the collection, purchased many small collections from J. and E. Verreaux and other dealers, including a number of specimens from the museum of Temminck.

In the following year two more collections were purchased for Dr. Wilson in London: the Gould collection of Australian birds and the Boys Indian Collection.

The former formed the basis of Gould's magnificent work on the birds of Australia, and contained nearly all of his types of Australian birds. It was always Gould's desire that this collection should become the property of the British Museum, and he offered it to the trustees for the moderate sum of £1000. His offer was, however, refused, and his disappointment was so great that in a moment of chagrin he disposed of it to Dr. Wilson.<sup>5</sup>

The Boys collection consisted of a full series of the species collected by Capt. Boys, of the British army, during several years'

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<sup>2</sup> See *Ann. and Mag. Nat. Hist.*, 1869, Vol. iii, p. 317.

<sup>3</sup> See *Proc. Acad. Nat. Sci. Phila.*, 1846, pp. 75, 128, 131, 343.

<sup>4</sup> Mr. Wilson was the immediate agent of his brother in the purchase of the Rivoli and other foreign collections.

<sup>5</sup> See Sharpe's *Index to the Works of John Gould*, p. xviii.

residence in India. The duplicates of his collection were dispersed at auction, and Dr. Wilson obtained the only full set.<sup>6</sup>

Neither of these collections reached the Academy for a year or two afterward, the Gould collection being placed in Verreaux's hands for mounting and the Boys collection being loaned to Mr. Gould for use in preparing his *Birds of Asia*.

While Dr. Wilson was bringing together his enormous collection, many smaller additions were being made to the Academy's series.

Between the years 1846 and 1860 the collections of Gambel, Cassin, Edw. Harris, Kern, Krider, Dr. Kane, T. C. Henry, Dr. Heermann, Dr. Woodhouse and McCall were received, and materially increased the collection of North American birds.

On March 20, 1860, Dr. Wilson formally presented his entire collection, then estimated at 26,000 specimens, to the Academy.

The next ten years show comparatively little increase in the collection, the most important additions being the African birds received from the DuChaillu expeditions which were sent out partly under the auspices of members of the Academy,<sup>7</sup> and the D'Oca collection from Mexico.

Quite a number of specimens were received at this time by gift and exchange from the Smithsonian Institution. With the death of Dr. Wilson in 1865, and of John Cassin in 1869, active ornithological work at the Academy ceased, and with the exception of a few scattered specimens, no addition of importance was made to the collection until 1887.

The accessions since that date, as shown in the appended list, have been extensive and number to date about 17,500 specimens.

In the absence of any catalogue of the individual specimens, Cassin's estimate of the collection in 1860 can only be regarded as approximate, and seems to have been too great. He states that there were about 29,000 specimens in the collection at that time, while up to 1887, 2,500 more were received, but our catalogue of the specimens in the museum in 1887 shows only 25,945.

While no doubt a number of specimens were lost or exchanged, it seems hardly possible that as many as five thousand were dis-

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<sup>6</sup> See Jardine's *Contributions to Ornithology*, 1848, p. 23.

<sup>7</sup> *Proc. Acad. Nat. Sci. Phila.*, 1855, p. 410.

posed of or destroyed, especially in view of the fact that nearly every type specimen or other of especial note is still in our possession.<sup>8</sup>

The following is a summary of the several collections contained in the Academy's museum:

	Academy collection in 1860, . . . .	3,000
	Rivoli collection, first purchase, . . . .	12,500
	Rivoli collection, second purchase, . . . .	2,500
	Gould collection (Australia), . . . .	2,000
	Bourcier collection, . . . . .	1,000
	Boys collection (India), . . . . .	1,000
	Collections obtained by Edward Wilson, . .	4,500
	Dr. Thomas B. Wilson's original collec- tion, . . . . .	2,500
		<hr/> 29,000
1860-64	Du Chaillu collections (Africa) . . . . }	428
1864	D'Oca collection (Mexico), . . . . }	
	Miscellaneous, 1860-1887, . . . . .	1,522
1880	Frazer collection (Pennsylvania), . . . .	300
1887	Butcher collection (North America), . .	300
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	Total received to 1887, . . . . .	31,550
	Actual number of specimens in museum, 1887,	25,945
1888	W. L. Abbott (N. A. and W. Indies), . . . .	2,659
1890	F. C. Baker (Florida), . . . . .	70
1890	Mexican Expedition, . . . . .	220
1891	S. N. Rhoads (Florida, Texas, Arizona), . . . .	875
1891	West Greenland Expedition, . . . . .	163
1892	Pearcy Relief and North Greenland Expeditions,	122
1893	G. W. Carpenter (miscellaneous), . . . . .	237
1893	S. N. Rhoads (Washington and British Co- lumbia), . . . . .	1,065
1894	R. B. Herron (California), . . . . .	205

<sup>8</sup> In *Proc. Acad. Nat. Sci.*, 1860, p. 86, the Wilson collection is stated as consisting of 26,000 mounted specimens and 2,000 skins. I feel convinced, however, that this is an error and that the estimate of 26,000 as given in detail by Cassin on the next page includes the "2,000 skins." The Academy collection at that date numbered about 3,000 specimens.

1899.]	NATURAL SCIENCES OF PHILADELPHIA.	9
1894	Van Deker (Honduras), . . . . .	45
1895	Mrs. M. J. Chase (mainly Trochilidæ), . . .	120
1895	T. H. Montgomery (Pennsylvania), . . . .	77
1895	S. N. Rhoads (Pennsylvania and New Jersey),	680
1895	S. N. Rhoads (Tennessee), . . . . .	58
1896	Benjamin Sharp (Alaska), . . . . .	105
1896	Dr. A. Donaldson Smith (Somaliland, East Africa), . . . . .	138
1896-97	R. T. Young (North America), . . . . .	110
1898	G. and J. E. Farnum and Dr. A. D. Smith (Mongolia), . . . . .	58
1887-97	Miscellaneous, . . . . .	658
1898	Turnbull Collection (N. A.), . . . . .	800
1899	Josiah Hoopes' collection (N. A.), . . . .	7,250
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		41,660
1897	On deposit Stone collection (Pennsylvania and New Jersey), . . . . .	1,800
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	Total specimens, 1898, . . . . .	43,460

As the collection was left by Dr. Wilson and John Cassin it was nearly all mounted and on exhibition in museum cases in accordance with the ideas prevalent at that time.

Since then, however, it has been clearly demonstrated that mounted specimens have but a limited existence, and sooner or later succumb to the ravages of light and dust, and for years the bulk of all the large collections has been preserved as skins in air-tight, light-proof cases. In accordance with this idea, the rearrangement of the Academy's collection was begun in 1891, and all the types and other valuable specimens as well as many duplicates have been unmounted, and placed in tight cabinets, leaving an ample exhibition series of about 10,000 specimens. Nearly all the recent additions have been skins and have been added to the study series.

In the list of type specimens contained in the Academy collection which follows, the species are arranged according to authors. In order to make the paper more complete, however, mention is made of every author who described new species of birds in the Academy's publications, whether their types are in the collection or not, and the present location of the types, so far as known, is indicated.

These authors are Bonaparte, Townsend, Leib, Gambel, Trudeau, Cassin, Dudley, Hoy, Jones, McCall, Heermann, Selater, March, Suckley, Woodhouse, Couch, Kennerly, Xantus-De Vesey, Henry, Baird, Elliot, Lawrence, Coues, Cooper, Ridgway, Hoopes, Herrick, Ogden, Gentry, Rhoads and Stone.

Along with the above have been grouped the following American writers: Wilson, Audubon, Say, Nuttall, Cabot, Bryant and Krider, some of whose types are in the collection, but who published elsewhere than in the Academy's journals. The sequence is nearly chronological.

Cassin, being an equal contributor to the ornithology of the Old and New World, is placed at the end of this list, and following him are considered Peale's types and those of the various foreign authors contained in the collections purchased by Dr. Wilson, *i. e.*, Jardine, Strickland, Massena, Verreaux, Lafresnaye, Sir A. Smith, Gould, Lesson, Vieillot, Eyton, Heine, Prevost and Knip.

In nearly every case I have selected *one specimen* as the type in cases where the describer did not make a selection, giving preference to the male over the female if both are described. This practice seems preferable to considering all the specimens of the original lot to be "cotypes," especially as it is often impossible to ascertain how many of the specimens were in the describer's possession at the time the diagnosis was prepared.

However, in order to be as accurate as possible, I have, in every case, included mention of all the specimens which might be considered as "cotypes" or "paratypes," whether in the Academy's collection or not, so that those who do not agree in the above practice will find all the evidence before them.

Care in selecting a definite type and referring to it in the original publication cannot be too highly commended, as the confusion and difficulties that are presented by the carelessness of the older writers in this respect are only too apparent after having completed a study such as this.

The species are entered under the names by which they are generally known at the present time, the nomenclature following the American Ornithologists' Union Check List in the case of North American birds, and the British Museum Catalogue, in the main, in the case of foreign birds.

It is probable that some names here regarded as synonyms in

accordance with current usage will eventually prove tenable, but to decide all such cases in a publication of this kind is manifestly impossible.

After the current name is given the name which the type represents and the reference to the original description, followed by the catalogue number and data of the type specimen and "paratypes."

Where specimens are stated to be in the British Museum, U. S. National Museum or other institution, the information is quoted respectively from the Catalogue of Birds, Baird, Cassin and Lawrence, *Birds of North America*, or the various descriptions of the authors themselves.<sup>9</sup>

#### ALEXANDER WILSON.

It is probable that all of Wilson's types that were preserved were deposited in Peale's Museum. The collections there contained were dispersed at auction upon the breaking up of the museum and such Wilson specimens as may have been there are probably lost.

Two of the types were, however, obtained in exchange by the Academy before the Peale collection was scattered. These are as follows:

**Buteo latissimus** (Wilson.)

*Falco latissimus* Wils. Am. Orn., vi., 1812, p. 92, pl. 54, fig. 1.

1,551. "Original specimen figured by Wilson."

**Ictinia mississippiensis** (Wilson.)

*Falco mississippiensis* Wils. Am. Orn., iii, 1811, p. 80, pl. 25, fig. 1.

2,032. "Original specimen figured by Wilson."

#### THOMAS SAY.

Say's types collected on Major Long's expedition to the Rocky mountains were apparently all deposited in Peale's Museum, and many of them are figured in Bonaparte's *American Ornithology* and definitely referred to by the Museum numbers.

As in the case of most of Wilson's types, they have been entirely lost sight of. There is no evidence that any of them came into possession of the Academy.<sup>10</sup>

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<sup>9</sup> Some data were also kindly furnished by Dr. C. W. Richmond, of the U. S. National Museum.

<sup>10</sup> Early references to the "Philadelphia Museum" refer to Peale's Museum, which bore this name after its reorganization, and not to the Academy, as is often supposed.

## CHARLES L. BONAPARTE.

Bonaparte's types, described in his *American Ornithology*, were either deposited in Peale's Museum or in his own collection. None of them appear to have been in the Academy collection, nor is there any trace of the types of several species described in the *Journal of the Academy*, 1824-1827.

Several of his types of foreign birds were, however, received in later years from Verreaux or Massena. A list of them follows:

*Nothocercus julius* (Bp.).

*Tinamus julius* Bp. Compt. Rend., xxxvii (1853), p. 633.

12,914. ♂ Colomb'a. From Verreaux. *Type*.

*Platycercus amathusiæ* (Bp.).

*Platycercus amathusiæ* Bp. Compt. Rend., xxx (1850), p. 133.

22,860. Australia. *Type*.

Bonaparte quotes "Gould MSS." as authority for this species, but Gould had not at that time published the species, and when he did, in 1855 (Pt. 2, p. 166) he used another name, *P. cyanogenys*, so that Bonaparte remains as the authority for the species. Gould's type is in the British Museum.

*Ortygometra verreauxi* (Bp.) Compt. Rend., xliii, pp. 599, 600.

*Ortygometra sclateri* (Bp.) Compt. Rend., xliii, pp. 599, 600.

These are nomina nuda so far as I can ascertain. The species were later published by Sclater and Salvin as *O. castaneiceps* and *hauwelli* respectively. The "type specimens" of Bonaparte are in the Academy collection received from Verreaux.

*Diphyllodes respublica* (Bp.). See under *Schlegelia wilsoni* of Cassin.

## JOHN K. TOWNSEND.

The new species of birds described by Townsend and Audubon from the Columbia river and Rocky mountains were obtained on an expedition undertaken by Townsend and Nuttall early in 1834.

Nuttall returned in October, 1835, via Hawaii and California, arriving home in August, 1836, while Townsend spent another year on the Columbia, visiting the South Pacific and Chile on his return.<sup>11</sup>

Nuttall met Audubon in Boston immediately after his return and gave him such notes as he had made on the Western birds for use in the *Ornithological Biography*. The only new birds which he seems

<sup>11</sup> See Narrative of a Journey Across the Rocky Mountains, etc.

to have obtained were *Agelaius tricolor* and *Pica nuttallii*. That he did not collect more was partly due to the fact that he was mainly engaged in collecting plants and partly, as Audubon states, to the fact that "he was not in the habit of carrying a gun on his rambles."

Townsend made the main ornithological collection, and apparently sent home by Nuttall all the specimens he had obtained up to the date of his departure, as the collection was in Philadelphia in 1836. Audubon, hearing of this, hastened to Philadelphia, and was much disgusted because Townsend's friends would not let him describe the new species. An arrangement was, however, effected by which the new birds were to be published by Nuttall and Audubon in a paper in the *Journal* of the Academy under Townsend's name, and then to be figured in the *Birds of America*.

And as a part of the same arrangement, Audubon (or Edward Harris for him) purchased the duplicate specimens.<sup>12</sup>

The types of the species described by Townsend are most of them still preserved in the Academy's collection. The "*duplicates*" purchased by Audubon were afterwards given by him to Edward Harris and Spencer F. Baird, and were eventually deposited respectively in the Academy and in the U. S. National Museum.

In some cases there are specimens in the U. S. National Museum of species which are not now contained in the Academy's series, in which case the former must be regarded as the types, otherwise the Academy specimens seem to have the best claim to be so considered.

The specimens collected by Townsend after Nuttall's departure fall into another category. They were apparently (with a few exceptions) sent direct to Audubon,<sup>13</sup> and were published by him in his *Ornithological Biography*, Vol. v, the types being subsequently given to Harris and Baird along with the others. Most of these are now in the Academy and National Museum, and the question as to which should be considered the types naturally arises. Fortunately there is only one species of which specimens are in both institutions, *i. e.*, *Dryobates villosus harrisi*, and of this there is little difficulty in fixing the type.

<sup>12</sup> Ornith. Biog., iv, Preface, p. xi.

<sup>13</sup> Not, however, those obtained in the S. Pacific and Chile which are in the Academy collection.

Townsend, upon his return, published *Cypcelus vauxii*, *Sylvia tolmoei*, *Cinclus mortoni* and *Cinclus townsendi*, and a complete list of the birds observed by him in the West, noting all the species described by Audubon and himself. A list of all of Townsend's species follows with reference to the type specimens, as well as to such others as are still preserved.

*Ægialitis montana* (Towns.).

*Charadrius montanus* Towns. Jour. Acad. Nat. Sci. Phila., vii, p. 192.

24,353. ♀ Rocky mountains. J. K. Townsend. *Type*.

*Chaetura vauxii* (Towns.).

*Cypcelus vauxii* Towns. Jour. Acad. Nat. Sci. Phila., viii, p. 148.

24,169. Columbia river. J. K. Townsend. *Type*.

*Junco hyemalis oregonus* (Towns.).

*Fringilla oregona* Towns. Jour. Acad. Nat. Sci. Phila., vii, p. 188.

24,048. Columbia river. J. K. Townsend. *Type*.

Two specimens with same data are in the U. S. National Museum from Baird (Nos. 1,947 and 1,948).

*Calcarius ornatus* (Towns.).

*Plectrophanes ornatus* Towns. Jour. Acad. Nat. Sci. Phila., viii, p. 189.

24,099. ♂ Rocky mountains. J. K. Townsend. *Type*.

*Calamospiza melanocorys* Stejn.

*Fringilla bicolor* Towns. Jour. Acad. Nat. Sci. Phila., vii, p. 189.

22,951. ♂ Rocky mountains. J. K. Townsend. *Type*.

23,953. ♀ Rocky mountains. J. K. Townsend.

Also one in U. S. National Museum, with same data (2,869).

*Dendroica auduboni* (Towns.).

*Sylvia auduboni* Towns. Jour. Acad. Nat. Sci. Phila., vii, p. 191.

23,826. ♂ Columbia river. J. K. Townsend. *Type*.

Also three specimens in U. S. National Museum.

*Dendroica nigrescens* (Towns.).

*Sylvia nigrescens* Towns. Jour. Acad. Nat. Sci. Phila., vii, p. 191.

Two specimens in the U. S. National Museum appear to be the only ones extant (Nos. 1,908 and 2,915).

1,908 (U. S. N. M.). ♂ June 16, 1835. Columbia river. J. K. Townsend. *Type*.

*Dendroica townsendi* (Towns.).

*Sylvia townsendi* Nutt., Towns. Jour. Acad. Nat. Sci. Phila., vii, p. 191.

One specimen in the U. S. National Museum is the only one extant.

2,918 (U. S. N. M.). ♂ Oct. 28, 1835. Columbia River. J. K. Townsend. *Type*.

This specimen was unique and must have been purchased by Audubon along with the duplicates, or given to him later by Townsend.

**Dendroica occidentalis** (Townsend.).

*Sylvia occidentalis* Towns. Jour. Acad. Nat. Sci. Phila., vii, p. 190.

I can find no record of Townsend's specimen of this bird, and it is apparently not in the National Museum.

**Geothlypis tolmoei** (Townsend.).

*Sylvia tolmoei* Towns. Appendix to Narrative of Journey Across Rocky Mountains, April, 1830, p. 343. Also Jour. Acad. Nat. Sci. Phila., viii, p. 149.

23,765. Columbia river. J. K. Townsend. *Type*.

Also, three specimens in U. S. Nat. Mus., from Baird (2,907, 1,910 and 1,861).

One of these specimens is the type of *Sylvia macgillivrayi* Aud. (see below), but in a paper in *Jour. Acad. Nat. Sci. Phila.*, viii, p. 159, Townsend insists that his name (*tolmoei*) should have priority. In this he was correct, though the fact has been universally overlooked.<sup>14</sup>

**Cinclus mexicanus** Sw.

*Cinclus montana* Towns.

*Cinclus townsendii* "Audubon" Towns.

These two species are described in the Appendix to Townsend's Narrative, p. 339, with reference to Audubon (Vol. iv, pl. 435). The first is based upon a single male, the latter upon a female. The descriptions were evidently prepared before Audubon's plate and descriptions appeared with the understanding that he would adopt the above names. He meanwhile, however, rightly surmised that they were both identical with *C. americanus* Sw. (= *mexicanus* Sw.), and published them under that name (*Orn. Biog.*, v, p. 303).

The types may possibly be in the U. S. National Museum.

**Oroscoptes montanus** (Townsend.).

*Orpheus montanus* Towns. Jour. Acad. Nat. Sci. Phila, vii, p. 193.

23,728. J. K. Townsend. *Type*.

**Parus rufescens** Towns.

*Parus rufescens* Towns. Jour. Acad. Nat. Sci., Phila., vii, p. 190.

23,665. ♀ Columbia river. J. K. Townsend. *Type*.

Also in U. S. National Museum, two similar specimens (2,931 and 1,924).

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<sup>14</sup> See Stone "Auk," Jan., 1899.

*Psaltiriparus minimus* (Towns.).

*Parus minimus* Towns. Jour. Acad. Nat. Sci. Phila., vii, p. 190.

Apparently no specimens are extant.

*Sialia mexicana occidentalis* (Towns.).

*Sialia occidentalis* Towns. Jour. Acad. Nat. Sci. vii, p. 188.

Two specimens are in the U. S. National Museum:

1,930 (U. S. N. M.). ♂ Columbia river. J. K. Townsend. *Type*.

2,949 (U. S. N. M.). ♀ Columbia river. J. K. Townsend.

#### JOHN JAMES AUDUBON.

The history of the Townsend specimens has been explained above and it only remains to speak of such others of Audubon's types as have found their way to the Academy's collection.

Two of these, *Colaptes ayersii* and *Caprimulgus nuttallii*, were presented by Audubon himself in 1849.

*Columba trudeaui* was obtained from J. G. Bell, and the others were presented by Edward Harris in 1849, with the rest of his collection.

Cassin states that Harris' collection contains the types of *Quiscalus breweri*, *Sturnella neglecta*, *Fringilla harrisii*, *F. lincolni*,<sup>15</sup> *Alauda spraguei*, *Emberiza bairdii* and *Vireo belli*.

Of several of these latter, Audubon also gave specimens to Baird, and it is a question which of these shall be designated as the types. In the list below I have included both the Academy and National Museum specimens in all such cases.

Considering first the species based on Townsend's collection, we find that two of those credited to Audubon in Townsend's list were evidently so given by typographical error—*Icterus gubernator* and *Diomedea chlororhynca* being already described by other authors.

*Icterus tricolor* and *Pica nuttalli* (type 3,337, U.S.N.M.) were based on Nuttall's specimens, and *Picus gairdnerii* apparently on one received from Gairdner or Nuttall, while the following were names based on account of birds that had been seen but not secured, and have no standing except *Caprimulgus nuttallii*, which was rediscovered by Audubon himself in 1843, and properly described:

*Phalacrocorax leucurus*.

*Picus pyrrhonotus*.

*Phalacrocorax leuconotus*.

*Turdus townsendii*.

*Phasianus americanus*.

*Caprimulgus nuttallii*.

<sup>15</sup> Probably Cassin's error. A specimen from the Upper Missouri was presented by Harris, but Audubon's type came from Labrador and seems to be lost.

Of the other species, types of the following are in the U. S. National Museum:<sup>16</sup>

*Troglodytes parkmani* (probably No. 66,644).

*Ptilogonys townsendii* (No. 2,922).

*Sylvia delafieldii* (No. 2,905).

*Sylvia macgillivrayi* (No. 1,910).

*Fringilla townsendii* (No. 2,874).

*Fringilla chlorura* (No. 1,896).

*Larus occidentalis*.

*Diomedea fusca*.

*Phalacrocorax townsendii*.

Of the rest, the types are in the Academy collection, as follows, or else have been entirely lost sight of:<sup>17</sup>

*Dryobates villosus harrisii* (Aud.).

*Picus harrisii* Aud. Orn. Biog., v, p. 191.

1,923. ♂ Columbia river. J. K. Townsend. *Type*.

24,246. ♀ Columbia river. J. K. Townsend.

Another in the U. S. National Museum does not correspond with either of those mentioned by Audubon in date of capture, so that it is probable that the above pair are those from which he drew his description.

*Brachyspiza capensis peruviana* (Less.)?

*Fringilla murtoni* Aud. Orn. Biog., v, p. 312.

10,614. "Columbia river. J. K. Townsend." From Dr. Woodhouse. *Type*.

This specimen was evidently obtained in Chile, and was wrongly labelled.

The other types of Audubon in the Academy collection are:

*Melopelia leucoptera* (L.).

*Columba trudeauii* Aud. Bds. of Am., vii, p. 352.

30,034. "The type specimen described by Mr. Audubon. J. C." Texas. From Bell.

*Scolecophagus breweri* (Aud.).

*Quiscalus breweri* Aud. Bds. of Am., vii, p. 345.

3,840. Ft. Union. June 24, 1843. Edw. Harris. *Type*.

*Sturnella magna neglecta* (Aud.).

*Sturnella neglecta* Aud. Bds. of Am., vii, p. 339.

<sup>16</sup> I am indebted to Dr. Charles W. Richmond for information relative to the Townsend specimens contained in the National Museum.

<sup>17</sup> The lost types are as follows—some of them may, however, be found among the material at the National Museum, part of which, Dr. Richmond informs me, is not at present accessible for examination:

*Uria townsendii*.

*Procellaria pacifica*.

*Procellaria tenuirostris*.

*Diomedea nigripes*.

*Phalacrocorax resplendens*.

*Hæmatopus townsendii*.

*Hæmatopus bachmani*.

*Aphriza townsendii*.

The specimen presented by Harris cannot now be found, and the type is therefore

1,939 (U. S. N. M.), June 30, 1843. J. J. Audubon. From S. F. Baird.  
**Colaptes auratus** × **cafer**.

*Picus ayresei* (Aud.). Bds. of Am., vii, p. 348.

30,198. ♂ June 19, 1843. From J. J. Audubon, coll. by Bell. *Type*.

**Zonotrichia querula** (Nutt.).

*Fringilla harrisi* Aud. Bds. of Am., vii, p. 331.

24,073. ♂ From Edw. Harris.

24,074. ♀ From Edw. Harris.

Also one specimen in the National Museum:

1,940 (U. S. N. M.). ♂ "Kickapoo country, May 5, 1843. J. J. Audubon," from S. F. Baird.

**Vireo belli** (Aud.).

*Vireo belli* Aud. Bds. of Am., vii, p. 333.

23,880. ♀ From Edw. Harris.

Also one in the National Museum, viz.:

1,926. (U. S. N. M.) "Ft. Union, 1843. J. J. Audubon." From S. F. Baird.

**Anthus spraguei** (Aud.).

*Alauda spraguei* Aud. Bds. of Amer., vii, p. 334.

23,733. ♂ June 24, 1843. Ft. Union. Edw. Harris. *Type*.

There is also a specimen in the National Museum:

1,854 (U. S. N. M.). "Ft. Union, 1843. J. J. Audubon." From S. F. Baird.

The specimen described is the male.

**Ammodramus bairdii** (Aud.).

*Emberiza bairdii* Aud. Bds. of Amer., vii, p. 359.

24,085. Ft. Union, 1843. Edw. Harris. *Type*.

24,086. Ft. Union, 1843. Edw. Harris.

There is also a specimen in the National Museum:

1,885 (U. S. N. M.). Ft. Union, 1843. J. J. Audubon, from Baird.

**Phalænoptilus nuttallii** (Aud.).

*Caprimulgus nuttallii* Aud. Bds. of Amer., vii, p. 350.

24,182. From J. J. Audubon. *Type*.

#### THOMAS NUTTALL.

Nuttall's new species were all described in his *Manual*, though he was, in all probability, responsible for the names published under the ostensible authorship of Townsend and Gamble during their absence in the West. Several of Nuttall's species are based on specimens in the Academy's collection as follows:

*Zonotrichia coronata* (Pallas).

*Zonotrichia aurocapilla* Nutt.

24,067. ♂ Sept. 22, 1836. Columbia river. *Type*.

*Melospiza fasciata guttata* (Nutt.).

*Melospiza guttata* Nutt.

This species is based upon Audubon's description of *Fringilla cinerea* (*Orn. Biog.*, v, p. 22), which Nuttall rightly determined was not *Fringilla cinerea* of Gmelin. Audubon's description was based upon one of Townsend's specimens, which subsequently came into the Academy's possession through Edward Harris, and must of course be regarded as the type of Nuttall's *M. guttata*.

24,028. ♂ Columbia river. J. K. Townsend. From E. Harris. *Type*.

A female and an unsexed specimen are in the National Museum, also from Townsend.

*Zonotrichia leucophrys gambeli* (Nutt.).

*Fringilla gambeli* Nutt.

Also based on a Townsend specimen in the Academy collection, but the type cannot now be found.

*Turdus ustulatus* (Nutt.).

*Turdus ustulatus* Nutt.

Based on a Townsend specimen in the Academy collection which I have identified as

23,644. Columbia river. J. K. Townsend. *Type*.

#### WILLIAM GAMBEL.

Gambel's new species were based mainly upon collections made by him in California and presented to the Academy, where most of the specimens are still preserved, though several have found their way into the National Museum.

*Ptychoramphus aleuticus* (Pall.).

*Mergulus cassinii* Gambel. Proc. Acad. Nat. Sci. Phila., xx, 1845, p. 266.

30,073. California. W. Gambel. *Type*.

*Sterna antillarum* (Less.)

*Sterna frenata* Gambel. Proc. Acad. Nat. Sci. Phila., 1848, p. 128.

24,499. Atlantic ocean. Dr. Heermann. *Type*.

*Sterna maxima* (Bodd.).

*Sterna regia* Gambel. Proc. Acad. Nat. Sci. Phila., 1848, p. 128.

30,071. Florida. Dr. Heermann. *Type*.

*Sterna elegans* (Gambel).

*Sterna elegans* Gambel. Proc. Acad. Nat. Sci. Phila., 1848, p. 128.

30,070. "Mazatlan, California." W. Gambel. *Type*.

**Dactylortyx thoracicus** (Gambel).*Ortyx thoracicus* Gambel. Proc. Acad. Nat. Sci. Phila., 1848, p. 77.

12,405. Jalapa, Mex., D'Oca Coll.

12,404. Mexico, Pease Coll. *Type*.**Callipepla gambellii** (Gambel).*Lophortyx gambellii* "Nutt." Gambel. Proc. Acad. Nat. Sci. Phila., 1843, p. 260.24,327. ♂ California. W. Gambel. *Type*.**Dryobates nuttallii** (Gambel).*Picus nuttalli* Gambel. Proc. Acad. Nat. Sci. Phila., 1843, p. 259.

The types of this species seem to be in the National Museum labelled as presented by Dr. Thomas B. Wilson.

3337 (U. S. N. M.). ♂ California. W. Gambel. *Type*.**Myiodynastes bairdii** (Gambel).*Saurophagus bairdii* Gambel. Jour. Acad. Nat. Sci. Phila., New Series, i, p. 40.

Type loaned by Baird, and now in U. S. National Museum.

This species inhabits South America. This specimen was wrongly attributed to California.

**Oreospiza chlorura** (Aud.).*Fringilla blandingiana* Gambel. Proc. Acad. Nat. Sci. Phila., 1843, p. 260.

The type of this species cannot be found.

**Harpophynchus redivivus** (Gambel).*Harpes redicivus* Gambel. Proc. Acad. Nat. Sci. Phila., 1845, p. 264.23715. California. W. Gambel. *Type*.**Troglodytes ædon** (Vieill.).*Troglodytes sylvestris* Gambel. Proc. Acad. Nat. Sci. Phila., 1846, p. 113.

Proposed for *T. americana* Aud., which is preoccupied.

No type has been found.

**Chamæa fasciata** (Gambel).*Parus fasciatus* Gambel. Proc. Acad. Nat. Sci. Phila., 1845, p. 265.

Type is in the National Museum.

3,339 (U. S. N. M.). California. Dr. Gambel. From Baird.

**Parus gambeli** Ridgw.*Parus montanus* Gambel. Proc. Acad. Nat. Sci. Phila., 1843, p. 259.

The type of this species cannot be found.

**Parus inornatus** Gambel.*Parus inornatus* Gambel. Proc. Acad. Nat. Sci. Phila., 1845, p. 235.

Type is in the National Museum.

3,340 (U. S. N. M.). California. Dr. Gambel. From Baird.

## JAMES TRUDEAU.

Trudeau described in the Academy's *Journal* for 1837 and 1839, *Picus auduboni* from New Orleans, *Pyrranga leucoptera* from Mexico. Neither of his types, however, seem to have been presented to the Museum.

## EDWARD HARRIS.

Harris described but one species, the type of which is before me.

*Parus atricapillus septentrionalis* (Harris).

*Parus septentrionalis* Harris. Proc. Acad. Nat. Sci. Phila., 1845. p. 300. 29,792, juv. Yellowstone river, upper Missouri. E. Harris. *Type*.

## GEORGE A. MCCALL.

Of McCall's types two are preserved in the collection.

*Otocoris alpestris occidentalis* (McCall).

*Otocoris occidentalis* McCall. Proc. Acad. Nat. Sci. Phila., 1851, p. 218. 14,883. Santa Fé, N. Mex. July, 1850. *Type*.

This name must supplant either *arenicola* or *adusta*.

*Carpodacus mexicanus frontalis* (Say).

*Carpodacus obscurus* McCall. Proc. Acad. Nat. Sci. Phila., 1851, p. 220. 24,141. ♀ Santa Fé, N. Mex. June, 1850. *Type*.

Of the other species described by him, the types cannot be found, viz.:

*Columba solitaria* (McCall). Proc. Acad. Nat. Sci. Phila., 1847, p. 233.

*Cyanocorax cassini* (McCall). Proc. Acad. Nat. Sci. Phila., 1851, p. 216 (= *Cyanocephalus cyanocephalus*).

*Carpodacus familiaris* (McCall). Proc. Acad. Nat. Sci. Phila., 1852, p. 61.

## GEORGE C. LEIB.

*Camptolaimus labradorius* (Gm.).

*Fuligula grisea* Leib. Jour. Acad. Nat. Sci. Phila. (1st series), viii, p. 170.

Type is perhaps one of two old specimens in the collection without data, but this is by no means certain.

## WILLIAM DUDLEY.

*Grus americanus* (Linn.).

*Grus hoyianus* Dudley. Proc. Acad. Nat. Sci. Phila., vii, p. 64.

Type in Museum Wisconsin Natural History Society.

## PHILO R. HOY.

*Bubo virginianus arcticus* (Sw.).

*Bubo subarcticus* Hoy. Proc. Acad. Nat. Sci. Phila., vi, p. 211. 2,797. Racine, Wisconsin. Dr. Hoy. *Type*.

**Nyctala acadica** (Gm.).

*Nyctale kirtlandii* Hoy. Proc. Acad. Nat. Sci. Phila., vi, p. 210.  
2,718. Wisconsin. Dr. Hoy. *Type*.

**Buteo bairdii** (Hoy). See under Cassin.

## W. L. JONES.

**Dryobates pubescens** (L.).

*Picus lecontei* Jones. Ann. Lyc. N. H., iv (1848), p. 489.  
30,199. ♂ Georgia. Apr. 14, 1847. Dr. W. L. Jones. *Type*.

## A. L. HEERMANN.

Three species were described by Heermann, the types being as follows:

**Podilymbus podiceps** (Linn.).

*Podilymbus lineatus* Heermann. Proc. Acad. Nat. Sci. Phila., 1847, p. 179.

4,738. California. A. L. Heermann. *Type*.

**Colymbus nigricollis californicus** (Heerm.).

*Podiceps californicus* Heermann. Proc. Acad. Nat. Sci. Phila., 1854, p. 179.

30,072. California. A. L. Heermann. *Type*.

**Tringytes subruficollis** (Heerm.).

*Actidurus navius* Heerm. Proc. Acad. Nat. Sci. Phila., 1854, p. 178.  
6,694 (U. S. N. M.). San Antonio, Tex. *Type*.

GEORGE SUCKLEY,

C. B. R. KENNERLY,

S. W. WOODHOUSE,

J. XANTUS DEVESEY,

D. N. COUCH,

T. CHARLTON HENRY.

These authors all described new species in the Academy's *Proceedings* (1852-1859) from collections made by them on the various Government surveys, and while many duplicates from the collections have been presented to the Academy by the Smithsonian Institution, the types, with one exception, were retained.

**Harpophynchus crissalis** (Henry).

*Toxostoma crissalis* Henry. Proc. Acad. Nat. Sci. Phila., 1858, p. 117.  
23,713 (8,127). Ft. Thorn, N. Mex. T. C. Henry. *Type*.  
(See also Baird, Rev. Amer. Bds., p. 48).

## SPENCER F. BAIRD.

While a majority of Prof. Baird's new species were described in the Academy's *Proceedings*, most of his types were the property of the U. S. National Museum. Those in the Academy's collection are as follows:

*Anser albifrons gambeli* (Hartl.).

*Anser frontalis* Baird. Bds. of N. Am., p. 762.

6,055. New Mexico. Dr. T. C. Henry, marked by Cassin as "*Type of species.*"

Two specimens are mentioned in the original description, and this is evidently one of them.

*Empidonax minimus* (Baird).

*Tyrannula minima* Baird. Proc. Acad. Nat. Sci. Phila., 1843, p. 284.

4,465 (1,161 S. F. B.). Carlisle, Pa. Aug. 16, 1843, from Baird. *Type.*

*Empidonax flaviventris* (Baird).

*Tyrannula flaviventris* Baird. Proc. Acad. Nat. Sci. Phila., 1843, p. 283.

The type of this species was also presented to the Academy (see *Proc. Acad. Nat. Sci. Phila.*, 1843, p. 289), but is not now extant.

*Lanius fallax*, or some allied Old World species.

*Collurio ludovicianus robustus* Baird. Baird, Brewer and Ridgway. N. A. Bds., i, p. 420 (1874).

15,303. ["California."] Dr. Gambel. *Type.*

The specimen probably came from the Old World (see Stejneger, *Proc. Acad. Nat. Sci. Phila.*, 1885, p. 91).

*Vireolanus eximius* Baird.

*Vireolanus eximius* Baird. Rev. Amer. Bds., 1864, p. 398.

24,497. Bogota, from J. G. Bell. *Type.*

*Dendroica rufigula* Baird.

*Dendroica rufigula* Baird. Rev. Amer. Bds., 1864, p. 204.

8,675. Martinique. Rivoli coll. (?) *Type.*

*Platycichla brevipes* Baird.

*Platycichla brevipes* Baird. Rev. Amer. Bds., 1864, p. 32.

While the Academy specimen, 24,495, is mentioned in the description, the National Museum specimen, 23,954, seems to have the better claim to recognition as the type.

#### GEORGE N. LAWRENCE.

As in the case of Baird, Lawrence was a frequent contributor to the *Proceedings*, though most of his types were preserved elsewhere. Only two are in the collection.

*Thamnophilus virgatus* Lawr.

*Thamnophilus virgatus* Lawr. Proc. Acad. Nat. Sci. Phila., 1865, p. 361.

24,500. ♂ Turbo, Panama. W. S. and C. J. Wood, Michler Exp. *Type.*

This species is wholly ignored in the *Catalogue of Birds* in the British Museum, but is reestablished in the *Biologia Centr. Amer.*,

ii., p. 199, after an examination of this specimen which seems to be unique.

*Auriparus flaviceps* (Sundev.).

*Conirostrum ornatum* Lawr. Ann. Lyc. N. Y., v, p. 112.

18,177. Rio Grande River. Capt. J. C. McCown. *Type*.

This specimen was apparently presented by Lawrence and is labelled as above in his hand.

D. G. ELLIOT,

ELLIOT COUES,

J. G. COOPER,

ROBERT RIDGWAY.

These authors all contributed diagnoses of new species to the *Proceedings*, but only two of their types are contained in the Academy's collection.

*Diomedea melanophrys* Boie.

*Diomedea gilliana* Coues. Proc. Acad. Nat. Sci. Phila., 1866, p. 181.

4,514. (No data.) *Type*.

*Glaucidium jardinii* (Bp.).

*Glaucidium langsborgii* Rdgw. Proc. Bost. Soc. N. H., xvi, p. 98.

2,586. ♂ Brazil. *Type*.

2,590. ♀ Caracas.

Though credited to "Leyd. Mus., T. B. Wilson," Ridgway seems to have been the first to publish this name.

#### P. L. SCLATER.

Dr. Sclater described several new species in Jardine's *Contributions to Ornithology*, based on specimens loaned him by Edward Wilson. The types, however, seem to have been afterwards secured by Dr. Sclater, and presented to the British Museum, and never reached the Academy collection.

Such species are:

*Euphonia frontalis*.

*Calliste lunigera*.

*Calliste xanthogastra*.

Some other specimens upon which he based descriptions were lost in shipment to Philadelphia (see *Contr. to Ornith.*, 1852, p. 59). Besides the birds loaned to him by Edward Wilson, Sclater described two new species during his visit to the Academy in 1856. His types in the collection are as follows:

*Glaucidium gnoma californicum* Sel.

*Glaucidium californicum* Sel. P. Z. S., 1857, p. 4.

2,559. ♀ California. Dr. A. L. Heermann. *Type*.

**Pygoptila margaritata** (Sel.).*Myrmeciza margaritata* Sel. P. Z. S., 1854, p. 253.8,111. ♂ Peru, from Verreaux. *Type*.**Saltator atripennis** Sel.*Saltator atripennis* Sel. Proc. Acad. Nat. Sci. Phila., 1856, p. 261.7,800. ♂ "Popayan, N. Granada." Rivoli coll. *Type*.

7,801. ♂ "Popayan, N. Granada." Rivoli coll.

**Helodytes humilis** Sel.*Campylorhynchus humilis* Sel. Proc. Acad. Nat. Sci. Phila., 1856, p. 263.

24,496. ♂ Mazatlan. Bell.

23,908. "California." Dr. Gambel.

## HENRY BRYANT.

**Tachycineta cyaneoviridis** (Bryant).*Hirundo cyancoviridis* Bryant. Proc. Bost. Soc. Nat. Hist., vii (1859), p. 111.15,639. Nassau, New Providence, Bahamas. Pres. by Dr. Bryant, 1860. *Type*.

Most of Dr. Bryant's types are presumably in the collection of the Boston Society of Natural History, but this specimen was sent to the Academy immediately after it was described, and is distinctly marked as the *type*.

## W. T. MARCH.

March described *Mimus hillii* in the Academy's *Proceedings* in 1863, but his type is in the U. S. National Museum.

## SAMUEL CABOT, JR.

**Psilorhinus mexicanus** Rüpp.*Corvus vociferus* Cabot. Jour. Bost. Soc. N. H., iv (1844), p. 464.3,096. Yucatan. *Type*.

This is the only one of Cabot's specimens in the Academy, and is marked by Prof. Baird as the *type*.

## JOHN KRIDER.

The well-known gunmaker and taxidermist of Philadelphia, though a great collector, was not much of a contributor to ornithological literature, and the only species described by him was the following, which proves to be merely a partly melanistic Common Quail:

**Colinus virginianus** (L.).*Ortyx virginianus* var. *hoopesi* Krider. Forest and Stream, Vol. xvi, p. 243.12,391. J. Krider. *Type*.

## BERNARD A. HOOPES.

*Buteo borealis kriderii* (Hoopes).

*Buteo kriderii* Hoopes. Proc. Acad. Nat. Sci. Phila., 1873, p. 238.  
1,493. ♂ Winnebago Co., Iowa. Sept., 1872. J. Krider. *Type*.

## HEROLD HERRICK.

*Helminthophila lawrencei* (Herrick).

*Helminthophaga lawrencei* Herrick. Proc. Acad. Nat. Sci. Phila., 1874,  
p. 220.

Type probably in the American Museum of Natural History.

## J. A. OGDEN.

*Chettusia crassirostris* De Fil.

*Chettusia nigrifrons* Ogden. Proc. Acad. Nat. Sci. Phila., 1871, p. 196.  
11639. Fazogloa Africa. Rivoli coll. *Type*.

"*Chettusia cassini* Ogden" seems to be only a manuscript name.  
No. 11,641, ♀, Java, Rivoli Coll., is labelled as the type with  
the above name.

*Ptilorhis magnifica* (Vieill.).

*Ptilorhis wilsoni* Ogden. Proc. Acad. Nat. Sci. Phila., 1875 (Jan.,  
1876), p. 451.

3,124. New Guinea. Rivoli coll. *Type*.

## ALAN F. GENTRY.

*Cyanocorax heilprini* Gentry.

*Cyanocorax heilprini* Gentry. Proc. Acad. Nat. Sci. Phila., 1885, p. 90.  
3,055. ♂ Rio Negro. Rivoli coll. *Type*.

Apparently unique, perhaps a hybrid.

## WITMER STONE.

*Anous atrofuscus* Stone.

*Anous atrofuscus* Stone. Proc. Acad. Nat. Sci. Phila., 1894, p. 117.  
5,027 Mer de Montevideo. Rivoli coll. *Type*.

*Bubo virginianus* (Gm.).

*Bubo v. occidentalis* Stone. Auk, 1896, p. 155.  
26,435. Mitchell Co., Iowa. Dr. W. L. Abbott. 1880. *Type*.

This specimen proved not to be the "Western Horned Owl,"  
but intermediate between *virginianus* and *arcticus*. The "Western  
Horned Owl" was subsequently named *Bubo v. pallescens* Stone  
(type in U. S. National Museum).

*Sturnella magna hoopesi* Stone.

*Sturnella magna hoopesi* Stone. Proc. Acad. Nat. Sci., 1897, p. 149.  
786 (Coll. Josiah Hoopes). ♂ Brownsville, Tex. Mar. 13, 1892.  
F. B. Armstrong. *Type*.

## SAMUEL N. RHOADS.

*Parus hudsonicus columbianus* Rhoads.

*Parus hudsonicus columbianus* Rhoads. Auk, 1893, p. 23.

31,493. ♂ Field, B. C. Aug. 30, 1892. Coll. S. N. Rhoads. Type.

## JOHN CASSIN.

As the ornithologist of the Academy for over twenty-five years of its greatest ornithological activity, it is not surprising that Cassin described more new species from the collection than any one else, nor is it a matter of wonder that with such a collection constantly at hand he pursued his studies among the birds of all parts of the world with equal freedom. Cassin's publications consisted mainly of his papers in the *Proceedings* and *Journal* of the Academy.

Besides these he published the *Birds of California and Texas*, *Birds of the Japan Expedition*,<sup>18</sup> *U. S. Astronomical Expedition*,<sup>15</sup> the second edition of the *Birds of the U. S. Exploring Expedition*, and contributed the Raptores, Grallæ and Alcidæ to Baird's *Birds of North America*.

The types of new species described in the Government publications are all in the National Museum, while the vast majority of those described in these *Proceedings* are in the Academy collection. In a few of the species described in the latter, as well as those in the *Birds of California and Texas*, he frequently says "specimens in the Acad., Phila., and Nat. Mus., Wash.," which occasions some ambiguity. In such cases I have given preference to the Academy specimens as being probably those before him at the time of writing, especially when these are labelled by Cassin himself, but in some instances, as seen below, the National Museum specimens have the better claim.

A word of explanation as to Cassin's connection with the *Birds of the U. S. Exploring Expedition* may not be out of place, as the matter is not generally clearly understood.

The original report was prepared by Titian R. Peale, who accompanied the expedition, but only ninety copies of this work were issued. These which were distributed to the leading libraries but without plates. Subsequently, in consideration of the importance of the work, a new report was prepared by Cassin, accompanied by a volume of plates which had been originally intended to accompany the first edition.

<sup>18</sup> In these reports no new species are proposed.

Cassin had the original Peale collection submitted to him upon which to prepare his report. These specimens were mainly returned to the National Museum, but a small number, including some types, were presented to the Academy. Peale's work is remarkable for the number of names it adds to the synonymy, for out of 109 species described as new, only thirty-three are accepted in Cassin's edition. The few novelties described by Cassin from the collection are originally described in the Academy *Proceedings*.

Cassin's types have been grouped geographically in the following list and all the species proposed by him are included whether the types are in the Academy or not.

#### CASSIN'S NORTH AMERICAN TYPES.

##### *Cerorhina monocerata* (Pall.).

*Cerorhina suckleyi* Cass. Baird's Bds. of Am., p. 906.

4,579 (U. S. N. M.). Ft. Steilacoom, Washington T. Dr. G. Suckley. *Type*.

##### *Larus heermanni* Cass.

*Larus heermanni* Cass. Proc. Acad. Nat. Sci. Phila., 1852, p. 187.

Type cannot be found.

##### *Fulmarus glacialis rodgersii* (Cass.).

*Fulmarus rodgersii* Cass. Proc. Acad. Nat. Sci. Phila., 1862, p. 326.

Type in U. S. National Museum.

##### *Merganser americanus* (Cass.).

*Mergus americanus* Cass. Proc. Acad. Nat. Sci. Phila., 1852, p. 187.

No type mentioned, based partly on Wilson's plate.

##### *Oidemia deglandi* Bp.

*Oidemia velvetina* Cass. Proc. Acad. Nat. Sci. Phila., 1850, p. 126.

5,540. Egg Harbor, N. J. E. J. Lewis, M.D. *Type*.

##### *Chen hyperborea* (Pall.).

*Anser albatrus* Cass. Proc. Acad. Nat. Sci. Phila., 1856, p. 41.

6,045. Philadelphia market. *Type*.

##### *Chen rossii* (Cass.).

*Anser rossii* Cass. Proc. Acad. Nat. Sci. Phila., 1861, p. 73.

Type in U. S. National Museum.

##### *Branta canadensis* (L.).

*Anser parvipes* Cass. Proc. Acad. Nat. Sci. Phila., 1852, p. 187.

6,019. Vera Cruz. Dr. Burrough. *Type*.

##### *Grus canadensis* L.

*Grus fraterculus* Cass. Baird's Bds. of Am., p. 656.

10,378 (U. S. N. M.). Albuquerque, N. Mex. Lt. Whipple. *Type*.

*Tringa alpina pacifica* (Coues).

*Tringa alpina americana* Cass. Baird's Bds. of Am., p. 719.

No type mentioned; name proposed for the American bird as distinct from the European.

*Aegialitis nivosa* Cass.

Baird's Bds. of Am., p. 696.

6,600 (U. S. N. M.). Presidio, Cal. Lt. Trowbridge. *Type*.

*Buteo cooperi* Cass.

*Buteo cooperi* Cass. Proc. Acad. Nat. Sci. Phila., 1856, p. 253.

Type in U. S. National Museum.

*Buteo borealis calurus* (Cass.).

*Buteo calurus* Cass. Proc. Acad. Nat. Sci. Phila., 1855, p. 281.

1,516. N. Mexico. Dr. T. C. Henry. *Type*.

*Buteo lineatus elegans* (Cass.).

*Buteo elegans* Cass. Proc. Acad. Nat. Sci. Phila., 1855, p. 281.

1,544. ♂ California. *Type*.

*Buteo swainsoni* Bp.

*Buteo oxypterus* Cass. Proc. Acad. Nat. Sci. Phila., 1855, p. 282.

1,465. N. Mexico. Dr. T. C. Henry. *Type*.

Another specimen (8,550) in the National Museum is recorded by Ridgway as the type, but it is from Ft. Fillmore, while the type is from Ft. Webster. Our specimen is marked *type* by Cassin.

*Buteo insignatus* Cass. Bds. of Cal. and Tex., p. 102.

"Type is in the Museum of the Nat. Hist. Soc. of Montreal."

This was a melanistic specimen.

*Buteo bairdii* "Hoy" Cass. Proc. Acad. Nat. Sci. Phila., 1853, p. 451.

1,469. Wisconsin. Dr. Hoy. *Type*.

This is a very light-colored individual.

*Falco mexicanus* Schleg.

*Falco polyagris* Cass. Bds. of Cal. and Tex., p. 88.

2,175. Source of the Platte. J. K. Townsend. *Type*.

*Falco peregrinum anatum* (Bp.).

*Falco nigriceps* Cass. Bds. of Cal. and Tex., p. 87.

2,072. Bear creek, Cal. Kern. *Type*.

*Polyborus cheriway* (Jacq.).

*Polyborus auduboni* Cass. Proc. Acad. Nat. Sci., 1865, p. 2.

Type in U. S. National Museum.

*Megascops asio trichopsis* (Wagl.)

*Scops mecallii* Cass. Bds. of Cal. and Tex., p. 180.

The only specimen in the Academy which could have been examined by Cassin is a very young bird, so that the type should be selected from the National Museum series.

**Bubo virginianus pacificus** Cass.

*Bubo virginianus pacificus* Cass. Bds. of Cal. and Tex., p. 178.

This name was proposed for all Horned Owls of the Pacific slope, and no type was designated. As restricted by Stone (*Auk*, 1896, p. 153), the typical specimen is 27,905, ♂, San Bernardo, Cal., April, 1887, R. B. Herron.

**Bubo virginianus** (Gm.).

*Bubo virginianus atlanticus* Cass. Bds. of Cal. and Tex., p. 178.

Proposed for Horned Owls of the Atlantic slope. No type designated.

**Xenopicus albolarvatus** (Cass.).

*Leuconerpes albolarvatus* Cass. Proc. Acad. Nat. Sci. Phila., 1850, p. 106.

19,338. ♂ California. J. Bell. *Type*.

19,335 is the female specimen mentioned.

**Sphyrapicus thyroides** (Cass.).

*Picus thyroides* Cass. Proc. Acad. Nat. Sci. Phila., 1851, p. 349.

24,214. ♀ California. J. Bell. *Type*.

24,213 is another female with same data.

**Chordeiles virginianus henryi** (Cass.).

*Chordeiles henryi* Cass. Bds. Cal. and Tex., p. 233.

24,179. Rio Grande, Lat. 32°. Dr. T. C. Henry. *Type*.

Another with same data is in the National Museum (No. 6,005).

**Spinus lawrencei** (Cass.).

*Carduelis lawrencei* Cass. Proc. Acad. Nat. Sci. Phila., 1850, p. 105.

24,120. ♂ California. J. G. Bell. *Type*.

24,121 is a female with same data.

**Ammodramus rostratus** (Cass.).

*Emberiza rostrata* Cass. Proc. Acad. Nat. Sci. Phila., 1852, p. 184.

24,087. California. Dr. Heermann. *Type*.

24,088 is another collected at the same time.

**Spizella breweri** Cass.

*Spizella breweri* Cass. Proc. Acad. Nat. Sci. Phila., 1856, p. 40.

24,050. Black Hills, Dak. J. K. Townsend. *Type*.

**Amphispiza bilineata** (Cass.).

*Emberiza bilineata* (Cass). Proc. Acad. Nat. Sci., Phila., 1850, p. 104.

24,038. Rio Grande, Tex. J. W. Audubon. *Type*.

**Amphispiza belli** (Cass.).

*Emberiza belli* Cass. Proc. Acad. Nat. Sci., 1850, p. 104.

24,036. California. J. G. Bell. *Type*.

24,034 is another specimen with same data.

**Peucea ruficeps** (Cass.).

*Ammodramus ruficeps* Cass. Proc. Acad. Nat. Sci. Phila., 1852, p. 184.  
24,031. California. Dr. A. L. Heermann.

3,831 (U. S. National Museum) has the same data.

**Vireo flavoviridis** (Cass.).

*Vireosylva flavoviridis* Cass. Proc. Acad. Nat. Sci. Phila., 1851, p. 152.

Cassin refers to specimens from Panama and Nicaragua, but none of these seem to be extant.

**Vireo philadelphica** (Cass.).

*Vireosylva philadelphica* Cass. Proc. Acad. Nat. Sci. Phila., 1851, p. 153.

23,891. Philadelphia, Sep., 1842. J. Cassin. *Type*.

**Vireo huttoni** Cass.

*Vireo huttoni* Cass. Proc. Acad. Nat. Sci. Phila., 1851, p. 150.

3,725 (U. S. N. M.). Monterey, Cal. Hutton. *Type*.

The specimen from Georgetown, Cal., collected by Bell, cannot be found.

**Sitta carolinensis aculeata** (Cass.).

*Sitta aculeata* Cass. Proc. Acad. Nat. Sci. Phila., 1856, p. 254.

23,684. ♂ California. Dr. Gambel. *Type*.

**Parus atricristatus** Cass.

*Parus atricristatus* (Cass.). Proc. Acad. Nat. Sci. Phila., 1850, p. 103.

23,676. Rio Grande, Tex. J. W. Audubon. *Type*.

**Parus wollweberi** Bp.

*Parus annexus* Cass. Proc. Acad. Nat. Sci. Phila., 1850, p. 103.

23,674. Rio Grande, Tex. J. W. Audubon. *Type*.

### CASSIN'S MEXICAN AND TROPICAL AMERICAN TYPES.

**Cathartes burrovianus** Cass.

*Cathartes burrovianus* Cass. Proc. Acad. Nat. Sci., Phila., 1845, p. 212.

58. Vera Cruz. Dr. Burrough. *Type*.

**Regerhinus wilsoni** (Cass.).

*Cyminidis wilsonii* Cass. Proc. Acad. Nat. Sci. Phila., 1847, p. 199.

1,944. ♂ Gibara, Cuba. R. C. Taylor. *Type*.

1,945 is a female with same data.

**Micrastur guerilla** Cass.

*Micrastur guerilla* Cass. Proc. Acad. Nat. Sci. Phila., 1843, p. 37.

243. Mexico. Coll. by Pease. *Type*.

244 from same locality and collector.

**Nyctalatinus harrisii** Cass.

*Nyctale harrisii* Cass. Proc. Acad. Nat. Sci. Phila., 1849, p. 157.

2,723. S. America (?) from J. G. Bell. *Type*.

**Ciccaba albogularis** (Cass.).

*Syrnium albogularis* Cass. Proc. Acad. Nat. Sci. Phila., 1848, p. 124.

2,689. S. America. Rivoli coll. *Type*.

2,688 is another specimen with same data.

**Ciccaba virgata** (Cass.).

*Syrinium virgatum* Cass. Proc. Acad. Nat. Sci. Phila., 1848, p. 124.  
2,688. S. America. Rivoli colln. *Type*.

**Megascops brasilianus** (Gm.)?

*Ephialtes watsonii* Cass. Proc. Acad. Nat. Sci. Phila., 1848, p. 123.  
2,445. S. America. *Type*.

Another specimen mentioned is 2,444 from the Orinoco.

**Ara auricollis** Cass.

*Ara auricollis* Cass. Proc. Acad. Nat. Sci. Phila., 1853, p. 372.  
22,358. S. America. Rivoli coll. *Type*.

The other specimens mentioned are 22,359 and 22,357.

**Chrysotis viridigenalis** Cass.

*Chrysotis viridigenalis* Cass. Proc. Acad. Nat. Sci. Phila., 1853, p. 371.  
22,506. ♂ Brazil? Rivoli coll. *Type*.

**Bolborhynchus lineolus** (Cass.).

*Psittacula lineola* Cass. Proc. Acad. Nat. Sci. Phila., 1853, p. 372.  
22,984. Mexico (National Bridge). Pease coll. *Type*.

**Brotogeris tuipara** (Gm.).

*Brotogeris aurifrons* Cass. Jour. Acad. Nat. Sci. Phila., 1855, p. 155.  
22,458. S. America. *Type*.

**Selenidera spectabilis** Cass.

*Selenidera spectabilis* Cass. Proc. Acad. Nat. Sci. Phila., 1857, p. 214.  
20,432. ♂ Veragua, N. Grenada. R. W. Mitchell. *Type*.

**Ramphastos toco** Müll.

*Ramphastos albogularis* Cass. Proc. Acad. Nat. Sci., Phila., 1867, p. 101.  
20,392. Central America. Rivoli coll. *Type*.

**Campephilus bairdii** Cass.

*Campephilus bairdii* Cass. Proc. Acad. Nat. Sci. Phila., 1863, p. 322.  
19,610. ♂ Cuba. R. C. Taylor. *Type*.

Specimens also in U. S. National Museum.

**Celeus loricatus** (Reichb.).

*Celeus mentalis* Cass. Proc. Acad. Nat. Sci. Phila., 1860, p. 137.  
19,548. ♂ Atrato River, N. Grenada. Lt. Michler. *Type*.

19,547, ♀, Turbo, is the other specimen mentioned.

These were received from the Smithsonian Institution.

**Dryobates orizabae** (Cass.).

*Picus orizabae* Cass. Proc. Acad. Nat. Sci. Phila., 1863, p. 196.  
19,267. ♂ Jalapa, Mex. D'Oca collection. *Type*.

19,266, a female, with same data.

**Dryobates vagus** Cass.

*Picus vagus* Cass. Proc. Acad. Nat. Sci. Phila., 1863, p. 196.  
19,264. ♂ Mexico? *Type*.

Also 19,265, ♀, both from the Rivoli collection.

**Galbula cyaneicollis** Cass.

*Galbula cyaneicollis* Cass. Proc. Acad. Nat. Sci. Phila., 1851, p. 154.  
20,736. Para, Brazil. J. G. Bell. *Type*.

20,737 and 20,738 are other Bell specimens.

**Bucco ordii** Cass.

*Bucco Ordii* Cass. Proc. Acad. Nat. Sci. Phila., 1851, p. 154.  
20,773. Rio Negro. *Type*.

**Monasa pallescens** Cass.

*Monasa pallescens* Cass. Proc. Acad. Nat. Sci. Phila., 1860, p. 134.  
20,830. ♂ Truando. Lt. Michler. *Type*.

20,829 is a female with the same data.

**Macropsalis forcipata** (Nitzsch).

*Hydropsalis limbatus* Cass. Proc. Acad. Nat. Sci. Phila., 1849, p. 236.  
21,946. ♂ S. America. *Type*.

21,943 is the female also described.

**Macropsalis segmentata** Cass.

*Hydropsalis segmentatus* Cass. Proc. Acad. Nat. Sci. Phila., 1849, p. 238.

21,939. ♂ Bogota. Rivoli coll. *Type*.

21,941, ♀, is the other specimen described by Cassin.

**Antrostomus serico-caudatus** Cass.

*Antrostomus serico-caudatus* Cass. Proc. Acad. Nat. Sci. Phila., 1849, p. 238.

21,905. S. America. *Type*.

21,904 is the younger bird mentioned in the description.

**Chætura cinericauda** (Cass.)

*Acanthylis cinericauda*. Cass. Proc. Acad. Nat. Sci. Phila., 1850, p. 58.  
21,780. S. America, from Edw. Wilson. *Type*.

21,781 is the other specimen mentioned. This is not a synonym of *C. pelagica* as given in the British Museum Catalogue.

**Claudia squamata** (Cass.).

*Cypselus squamatus* Cass. Proc. Acad. Nat. Sci. Phila., 1853, p. 369.  
21,770. Guiana. "Dr. Dawson." *Type*.

In the description the specimen is said to be from "Dr. Dalton."

**Pittasoma michleri** Cass.

*Pittasoma michleri* Cass. Proc. Acad. Nat. Sci. Phila., 1860, p. 189.  
*Type* in U. S. National Museum.

**Gymnocichla nudiceps** (Cass.).

*Myiothera nudiceps* Cass. Proc. Acad. Nat. Sci. Phila., 1850, p. 106.  
8,102. ♂ Panama. J. G. Bell. *Type*.

**Chiromachæris flaveola** (Cass.).

*Manacus flaveolus* Cass. Proc. Acad. Nat. Sci. Phila., 1851, p. 349.  
8,536. ♂ Bogota. *Type*.

**Cyanocorax violaceus** DuBus.

*Cyanocorax harrisii* Cass. Proc. Acad. Nat. Sci. Phila., 1848, p. 26.  
3,061. Guayaquil, Ecuador. Rivoli coll. *Type*.

**Aphelocoma unicolor** (DuBus).

*Cyanocorax concolor* Cass. Proc. Acad. Nat. Sci. Phila., 1848, p. 26.  
3,39. S. America. Rivoli coll. *Type*.

**Cassicus flavicrissus** Sol.

*Cassicus melanurus* Cass. Proc. Acad. Nat. Sci. Phila., 1867, p. 66.  
3,828. Guayaquil, Ecuador, from Dr. T. B. Wilson. *Type*.

**Molothrus rufoaxillaris** Cass.

*Molothrus rufoaxillaris* Cass. Proc. Acad. Nat. Sci. Phila., 1866, p. 23.  
*Type* in U. S. National Museum.

**Molothrus cabanisii** Cass.

*Molothrus cabanisii* Cass. Proc. Acad. Nat. Sci., 1866, p. 22.  
*Type*. 3,651. Rivoli coll. *Type*.

**Idiopsar brachyurus** Cass.

*Idiopsar brachyurus* Cass. Proc. Acad. Nat. Sci., 1866, p. 414.  
*Type* in U. S. National Museum.

**Icterus giraudii** Cass.

*Icterus giraudii* Cass. Proc. Acad. Nat. Sci. Phila., 1847, p. 333.  
3,434. ♂ Bogota. *Type*.  
Several other specimens are in the collection.

**Icterus sclateri** Cass.

*Icterus sclateri* Cass. Proc. Acad. Nat. Sci. Phila., 1867, p. 49.  
3,423. ♂ Nicaragua, from Dr. Wilson. *Type*.  
3,424 is a female bearing the same data.

**Icterus auricapillus** Cass.

*Icterus auricapillus* Cass. Jour. Acad. Nat. Sci. Phila., 1848, p. 137.  
3,431. ♂ Central America. *Type*.

**Icterus graceannæ** Cass.

*Icterus graceannæ* Cass. Proc. Acad. Nat. Sci. Phila., 1867, p. 52.  
3,432. Western S. America. Mr. Clay. *Type*.

**Icterus maculi-alatus** Cass.

*Icterus maculi-alatus* Cass. Proc. Acad. Nat. Sci. Phila., 1847, p. 332.  
3,453. Coban Vera Paz. Rivoli coll. *Type*.

Cassin gives "Vera Cruz" as the locality, evidently a misquotation of the label.

**Icterus mesomelas** (Wagl.).

*Icterus salvinii* Cass. Proc. Acad. Nat. Sci. Phila., 1867, p. 51.  
3,449. Costa Rica, from Dr. Wilson. *Type*.

Another specimen is 3,452, from the Rivoli collection.

**Icterus graysoni** Cass.

*Icterus graysoni* Cass. Proc. Acad. Nat. Sci. Phila., 1867, p. 49.  
*Type* in U. S. National Museum.

**Quiscalus lugubris** Sw.

*Quiscalus mexicanus* Cass. Proc. Acad. Nat. Sci. Phila., 1866, p. 408.  
3,681. "Mexico." *Type*.

**Quiscalus fortirostris** Lawr. ??

*Quiscalus rectirostris* Cass. Proc. Acad. Nat. Sci. Phila., 1866, p. 409.  
3,684. Rivoli coll. *Type*.

**Quiscalus gundlachii** Cass.

*Quiscalus gundlachii* Cass. Proc. Acad. Nat. Sci. Phila., 1866, p. 406.  
3,673. ♂ Cuba. R. C. Taylor. *Type*.

**Quiscalus brachypterus** Cass.

*Quiscalus brachypterus* Cass. Proc. Acad. Nat. Sci. Phila., 1866, p. 406.  
3,671. North side of Porto Rico. Geo. Latimer. *Type*.

Also 3,672. Porto Rico. R. Swift.

**Spinus xanthogaster** (DuBus).

*Chrysomitris bryanti* Cass. Proc. Acad. Nat. Sci., 1865, p. 91.

*Type* in U. S. National Museum.

**Paroaria nigrogenys** (Lafr.).

*Tanagra nigro-aurita* Cass. Proc. Acad. Nat. Sci. Phila., 1848, p. 85.  
10,720. Para. Mr. Wülf. *Type*.

The specimen from Rio Negro which might have better claims to being considered the *type* cannot be found.

**Chlorothraupis olivaceus** Cass.

*Orthogonyx olivaceus* Cass. Proc. Acad. Nat. Sci. Phila., 1860, p. 140.  
7,572. Truando River, Panama. Lt. Michler. *Type*.

**Calospiza cyaneicollis** (Lafr.).

*Calliste hannahæ* Cass. Proc. Acad. Nat. Sci. Phila., 1864, p. 287.  
7,284, from Mr. Geo. Robbins. "Maracaibo." *Type*.

The specimen is clearly marked as the *type*, though Cassin gives the locality as Merida mountains, Venezuela. Probably it was obtained in Maracaibo, and the exact habitat ascertained later.

**Calospiza lavinia** (Cass.).

*Calliste lavinia* Cass. Proc. Acad. Nat. Sci. Phila., 1858, p. 178.

The *type* of this species cannot be found.

**Chlorophanes spiza melanops** Cass.

*Chlorophanes melanops* Cass. Proc. Acad. Nat. Sci. Phila., 1864, p. 268.  
3,977. ♀ Rio Negro. Rivoli coll. *Type*.

The other specimen does not seem to have been preserved.

**Chlorophanes spiza cærulescens** Cass.

*Chlorophanes cærulescens* Cass. Proc. Acad. Nat. Sci. Phila., 1864, p. 268.

3,976. ♂ Juracares. Bolivia. Rivoli coll. *Type*.

This and 3,975, ♀, from same locality, are from D'Orbigny's collection ("No. 149").

**Euphonia anneæ** Cass.*Euphonia anneæ* Cass. Proc. Acad. Nat. Sci. Phila., 1865, p. 172.

Type in U. S. National Museum.

**Buarremon crassirostris** Cass.*Buarremon crassirostris* Cass. Proc. Acad. Nat. Sci. Phila., 1865, p. 170.

Type in U. S. National Museum.

**Arremon aurantirostris** Lafr. ?*Arremon rufidorsalis* Cass. Proc. Acad. Nat. Sci. Phila., 1865, p. 170.

Type in U. S. National Museum.

**Pitylus poliogaster** DuBus.*Pitylus flavocinereus* Cass. Proc. Acad. Nat. Sci. Phila., 1848, p. 67.  
7,905. ♂ S. America. Rivoli coll. Type.**Atticora cinerea** (Gm.).*Petrochelidon murina* Cass. Proc. Acad. Nat. Sci. Phila., 1853, p. 370.  
15,741. Ecuador, from Edw. Wilson. Type.**Dendroica vieillotii** Cass*Dendroica vieillotii* Cass. Proc. Acad. Nat. Sci. Phila., 1860, p. 192.Type is 10,211 (U. S. National Museum); *vide* Baird, *Rev. Amer. Birds*.

## CASSIN'S TYPES OF AFRICAN BIRDS.

Cassin published more upon the birds of Africa than those of any of the other continents, being influenced largely by the many collections received from Gaboon and other parts of the continent, especially from Du Chaillu and Dr. McDowell.

**Anas hartlaubii** (Cass.).*Querquedula hartlaubii* Cass. Proc. Acad. Nat. Sci. Phila., 1859, p. 175.  
5,736. River Camma, W. Africa. DuChaillu. Type.  
5,737. River Camma, W. Africa. DuChaillu.**Phasidus niger** Cass.*Phasidus niger* Cass. Proc. Acad. Nat. Sci. Phila., 1856, p. 322.  
12,613. ♂ Cape Lopez, W. Africa. DuChaillu. Type.**Guttera plumifera** (Cass.).*Numida plumifera* Cass. Proc. Acad. Nat. Sci. Phila., 1856, p. 321.  
12,576. Cape Lopez, W. Africa. DuChaillu. Type.**Francolinus squamatus** Cass.*Francolinus squamatus* Cass. Proc. Acad. Nat. Sci. Phila., 1856, p. 321.  
12,163. ♂ Cape Lopez, W. Africa. DuChaillu. Type.  
12,162. Cape Lopez, W. Africa. DuChaillu.**Turturæna iriditorques** (Cass.).*Columba iriditorques* Cass. Proc. Acad. Nat. Sci. Phila., 1856, p. 254.  
13,296. W. Africa. Dr. McDowell. Type.

**Columba unicincta** Cass.

*Columba unicincta* Cass. Proc. Acad. Nat. Sci. Phila., 1859, p. 143.  
13,280. ♂ Ogobai river, W. Africa. DuChaillu. *Type*.

**Spizæus africanus** (Cass.).

*Linnaeus africanus* Cass. Proc. Acad. Nat. Sci. Phila., 1865, p. 4.  
1,778. Ogobai river, W. Africa. DuChaillu. *Type*.  
1,779. Ogobai river, W. Africa. DuChaillu.

**Megascops scops hendersonii** (Cass.).

*Ephialtes hendersonii* Cass. Proc. Acad. Nat. Sci. Phila., 1852, p. 186.  
2,404. ♂ Off Novo Redondo, W. Africa. Dr. Henderson. *Type*.  
2,403. ♀ Off Novo Redondo, W. Africa. Dr. Henderson.

**Ortholophus albocristatus** (Cass.).

*Buceros albocristatus* Cass. Proc. Acad. Nat. Sci. Phila., 1847, p. 330.  
24,498. St. Paul's river, W. Africa. Dr. McDowell. *Type*.

**Bycanistes fistulator** (Cass.).

*Buceros fistulator* Cass. Proc. Acad. Nat. Sci. Phila., 1850, p. 68.  
9,539. W. Africa, Verreaux. *Type*.

**Lophoceros camurus** (Cass.).

*Toekus camurus* Cass. Proc. Acad. Nat. Sci. Phila., 1856, p. 319.  
9,520. Cape Lopez, W. Africa. DuChaillu. *Type*.

**Mesopicus elliotii** (Cass.).

*Polipicus elliotii* Cass. Proc. Acad. Nat. Sci. Phila., 1863, p. 197.  
19,455. Muni river, W. Africa. DuChaillu. *Type*.

**Campothera malherbei** (Cass.).

*Chrysopicus malherbei* Cass. Proc. Acad. Nat. Sci. Phila., 1863, p. 198.  
18,997. ♂? Zanzibar. *Type*.

**Campothera abingdoni** (Smith).

*Campothera chrysurus lineata* Cass. Proc. Acad. Nat. Sci. Phila., 1863,  
p. 327.

18,982. ♂ Port Natal. *Type*.

**Campothera maculosa**.

*Campothera vestita* Cass. Proc. Acad. Nat. Sci. Phila., 1863, p. 197.  
18,996. St. Paul's river, W. Africa. Dr. McDowell. *Type*.

**Myioceyx lecontei** (Cass.).

*Ispidina lecontei* Cass. Proc. Acad. Nat. Sci. Phila., 1856, p. 158.  
21,275. W. Africa. DuChaillu. *Type*.

This specimen seems to be still unique. A drawing of it was sent by Turnbull to Mr. Bowdler Sharpe. The figure in the latter's *Monograph of Alcedinide* is taken from it. It is an excellent representation of the bird.

**Indicator exilis** (Cass.).

*Melignotheres exilis* Cass. Proc. Acad. Nat. Sci. Phila., 1856, p. 157.  
19,801. Moonda river, W. Africa. DuChaillu. *Type*.

**Indicator conirostris** (Cass.).

*Melignotheres conirostris* Cass. Proc. Acad. Nat. Sci. Phila., 1856, p. 156.  
19,802. Moonda river, W. Africa. DuChaillu. *Type*.

**Prodotiscus insignis** (Cass.).

*Heterodes insignis* Cass. Proc. Acad. Nat. Sci. Phila., 1856, p. 157.  
19,804. Moonda river, W. Africa. DuChaillu. *Type*.

**Helioebucco bonapartii** (Hartl.).

*Barbatula fuliginosa* Cass. Proc. Acad. Nat. Sci. Phila., 1855, p. 324.  
20,629. Moonda river, W. Africa. DuChaillu. *Type*.

**Barbatula duchaillui** Cass.

*Barbatula duchaillui* Cass. Proc. Acad. Nat. Sci. Phila., 1855, p. 324.  
20,656. ♂ Moonda river, W. Africa. DuChaillu. *Type*.

**Merops mulleri** (Cass.).

*Meropiscus mulleri* Cass. Proc. Acad. Nat. Sci. Phila., 1857, p. 37.  
21,547. Muni river, W. Africa. DuChaillu. *Type*.

**Merops breweri** (Cass.).

*Meropogon breweri* Cass. Proc. Acad. Nat. Sci. Phila., 1859, p. 34.  
21,620. ♂ Ogobai river, W. Africa. DuChaillu. *Type*.  
21,621 is a female specimen from the same locality.

**Malimbus scutatus** (Cass.).

*Sycobius scutatus* Cass. Proc. Acad. Nat. Sci. Phila., 1849, p. 157.  
14,104. ♂ W. Africa. Dr. McDowell. *Type*.  
14,105. ♀ W. Africa. Dr. McDowell.

**Malimbus racheliae** (Cass.).

*Sycobius racheliae* Cass. Proc. Acad. Nat. Sci. Phila., 1857, p. 36.  
14,100. ♂ Muni river, W. Africa. DuChaillu. *Type*.  
14,101. Muni river, W. Africa. DuChaillu.

**Pyrenestes coccineus** Cass.

*Pyrenestes coccineus* Cass. Proc. Acad. Nat. Sci. Phila., 1848, p. 67.  
14,694. W. Africa. Dr. McDowell. *Type*.

**Hyphantornis badius** Cass.

*Hyphantornis badius* Cass. Proc. Acad. Nat. Sci. Phila., 1850, p. 57.  
14,052. Fazogloa, E. Africa. Rivoli coll. *Type*.

**Hyphantornis collaris** (Vieill.).

*Hyphantornis cinctus* Cass. Proc. Acad. Nat. Sci. Phila., 1859, p. 133.  
14,065. ♀ Camma river, W. Africa. DuChaillu. *Type*.

**Pyromelana nigriventris** (Cass.).

*Euplectes nigroventris* Cass. Proc. Acad. Nat. Sci. Phila., 1848, p. 66.  
14,301. ♂ Zanzibar. Rivoli coll. *Type*.

**Penthetria ardens** (Bodd.).

*Vidua coneolor* Cass. Proc. Acad. Nat. Sci. Phila., 1848, p. 66.  
14,215. Africa. Rivoli coll. *Type*.

**Steganura paradisea** (L.).

*Vidua verreauxii* Cass. Proc. Acad. Nat. Sci. Phila., 1850, p. 56.  
14,177. ♂ Abyssinia. *Type*.  
14,193. ♀ Abyssinia.

There are two other males bearing the same data, but 14,177 is evidently the one described.

**Penthetria albonotata** (Cass.).

*Vidua albonotata* Cass. Proc. Acad. Nat. Sci. Phila., 1848, p. 65.

14,226. ♂ Port Natal, from Edw. Wilson. *Type*.

**Spermestes nigriceps** Cass.

*Spermestes nigriceps* Cass. Proc. Acad. Nat. Sci. Phila., 1852, p. 185.

14,358. ♂ Zanzibar. Rivoli coll. *Type*.

14,359. ♀ Zanzibar. Rivoli coll.

**Buchanga assimilis** Bechst.

*Dicrurus aculeatus* Cass. Proc. Acad. Nat. Sci. Phila., 1851, p. 348.

286. Fazogloa. Rivoli coll. *Type*.

**Graucalus azureus** Cass.

*Graucalus azureus* Cass. Proc. Acad. Nat. Sci. Phila., 1851, p. 348.

402. W. Africa. Dr. McDowell. *Type*.

**Lanius pallidirostris** Cass.

*Lanius pallidirostris* Cass. Proc. Acad. Nat. Sci. Phila., 1851, p. 244.

15,306. E. Africa. Rivoli coll. *Type*.

**Lanius pallens** Cass.

*Lanius pallens* Cass. Proc. Acad. Nat. Sci. Phila., 1851, p. 245.

15,308. Fazogloa, E. Africa. Rivoli coll. *Type*.

15,307. Fazogloa, E. Africa. Rivoli coll.

**Laniarius quadricolor** (Cass.).

*Lanius quadricolor* Cass. Proc. Acad. Nat. Sci. Phila., 1851, p. 245.

15,136. ♂ Port Natal, Africa. *Type*.

15,138, juv. ♂ Port Natal, Africa. *Type*.

**Nicator chloris** (Less.).

*Laniarius lepidus* Cass. Proc. Acad. Nat. Sci., Phila., 1855, p. 327.

The type of this species cannot be found.

**Dryoscopus sublacteus** Cass.

*Dryoscopus sublacteus* Cass. Proc. Acad. Nat. Sci. Phila., 1851, p. 246.

15,162. E. Africa? Rivoli coll. *Type*.

**Dryoscopus leucorhynchus** (Hartl.).

*Laniarius carbonarius* Cass. Proc. Acad. Nat. Sci. Phila., 1851, p. 347.

15,275. W. Africa. Dr. McDowell. *Type*.

**Dryoscopus atrialatus** Cass.

*Dryoscopus atrialatus* Cass. Proc. Acad. Nat. Sci. Phila., 1851, p. 246.

15,172. E. Africa? Rivoli coll. *Type*.

**"Eopsaltria cinerea"** Cass.

Proc. Acad. Nat. Sci. Phila., 1856, p. 253.

The type of this species cannot be found, and I do not find the name quoted in synonymy. Its true relationship seems uncertain.

**Pholidornis rushiæ** (Cass.).

*Dicacum rushiæ* Cass. Proc. Acad. Nat. Sci. Phila., 1855, p. 325.

15,553. ♂ Moonda river, W. Africa. DuChaillu. *Type*.

15,554. ♀ Moonda river, W. Africa. DuChaillu.

**Parmoptila woodhousei** Cass.

*Parmoptila woodhousei* Cass. Proc. Acad. Nat. Sci. Phila., 1859, p. 40.  
15,555. ♀ Camma river, W. Africa. DuChaillu. *Type*.

Apparently unknown, except from the two specimens described by Cassin, of which the male seems to have been lost.

**Psalidoprocne nitens** (Cass.).

*Atticora nitens* Cass. Proc. Acad. Nat. Sci. Phila., 1857, p. 38.  
15,774. Muni river, W. Africa. DuChaillu. *Type*.

**Psalidoprocne holomelas** Sund.

*Atticora hamigera* Cass. Proc. Acad. Nat. Sci. Phila., 1850, p. 57.  
15,771. Port Natal. *Type*.

**Hirundo dimidiata** Sund.

*Hirundo scapularis* Cass. Proc. Acad. Nat. Sci. Phila., 1850, p. 59.  
15,672. E. Africa. *Type*.

**Ægithalus flavifrons** Cass.

*Ægithalus flavifrons* Cass. Proc. Acad. Nat. Sci. Phila., 1855, p. 325.  
9,390. Moonda river, W. Africa. DuChaillu. *Type*.

**Alseonax comitatus** (Cass.).

*Butalis comitatus* Cass. Proc. Acad. Nat. Sci. Phila., 1857, p. 35.  
576. Muni river, W. Africa. DuChaillu. *Type*.

**Alseonax epulata** (Cass.).

*Butalis epulatus* Cass. Proc. Acad. Nat. Sci. Phila., 1855, p. 326.  
577. Moonda river, W. Africa. DuChaillu. *Type*.

**Artomyias fuliginosa** Verr.

*Butalis infuscatus* Cass. Proc. Acad. Nat. Sci. Phila., 1855, p. 326.  
601. Moonda river, W. Africa. DuChaillu. *Type*.

**Leoptilus olivaceus** (Cass.).

*Parisoma olivaceus* Cass. Proc. Acad. Nat. Sci. Phila., 1859, p. 52.  
806. ♂ Camma river, W. Africa. DuChaillu. *Type*.

This appears to be unique.

**Parisoma plumbeum** (Hartl.).

*Parisoma melanurum* Cass. Proc. Acad. Nat. Sci. Phila., 1859, p. 51.  
811. Camma river, W. Africa. DuChaillu. *Type*.

**Erythrocerus mecallii** (Cass.).

*Pycnosphrys mecallii* Cass. Proc. Acad. Nat. Sci. Phila., 1855, p. 326.  
887. Moonda river, W. Africa. DuChaillu. *Type*.

**Trochocercus nitens** Cass.

*Trochocercus nitens* Cass. Proc. Acad. Nat. Sci. Phila., 1859, p. 50.  
894. ♂ Camma river, W. Africa. DuChaillu. *Type*.  
893. ♀ Camma river, W. Africa. DuChaillu.

**Terpsiphone cristata** (Gm.).

*Muscipeta duchaillui* Cass. Proc. Acad. Nat. Sci. Phila., 1859, p. 48.  
986. "♂" Camma river, W. Africa. DuChaillu. *Type*.  
985. "juv." Camma river, W. Africa. DuChaillu.  
984. "♀" Camma river, W. Africa. DuChaillu.  
*Muscipeta speciosa* Cass. Proc. Acad. Nat. Sci. Phila., 1859, p. 48.  
990. "♂" Camma river, W. Africa. DuChaillu. *Type*.

The perplexing variations in plumage exhibited by this species are the cause of its many synonyms. It does not yet seem to be properly understood.

**Burnesia bairdii** (Cass.).

*Drymoica bairdii* Cass. Proc. Acad. Nat. Sci. Phila., 1855, p. 327.

17,502. Moonda river, W. Africa. DuChaillu. *Type*.

**Hylia prasina** (Cass.).

*Sylvia prasina* Cass. Proc. Acad. Nat. Sci. Phila., 1855, p. 325.

17,479. ♂ Moonda river, W. Africa. DuChaillu. *Type*.

17,498. Moonda river, W. Africa. DuChaillu.

**Eremomela caniceps** (Cass.).

*Camaroptera caniceps* Cass. Proc. Acad. Nat. Sci. Phila., 1859, p. 38.

17,471. ♂ Cape Lopez, W. Africa. DuChaillu. *Type*.

**Euprinodes schistaceus** Cass.

*Euprinodes schistaceus* Cass. Proc. Acad. Nat. Sci. Phila., 1858, p. 38.

17,468. ♂ River Camma, W. Africa. DuChaillu. *Type*.

**Sylvietta virens** (Cass.).

*Sylvietta virens* Cass. Proc. Acad. Nat. Sci. Phil., 1859, p. 39.

13,906. Cape Lopez, W. Africa. DuChaillu. *Type*.

**Camaroptera brevicaudata** (Cretsch.).

*Syncoptia tineta* Cass. Proc. Acad. Nat. Sci. Phila., 1855, p. 325.

17,475. Moonda river, W. Africa. DuChaillu. *Type*.

**Turdinus fulvescens** (Cass.).

*Turdoides fulvescens* Cass. Proc. Acad. Nat. Sci. Phila., 1859, p. 54.

13,846. ♂ Camma river, W. Africa. DuChaillu. *Type*.

17,369. ♀ Camma river, W. Africa. DuChaillu.

**Macrosphenus flavicans** Cass.

*Macrosphenus flavicans* Cass. Proc. Acad. Nat. Sci. Phila., 1859, p. 42.

17,350. ♂ Camma river, W. Africa. DuChaillu. *Type*.

17,349. ♀ Camma river, W. Africa. DuChaillu.

**Xenocichla notata** (Cass.).

*Tricophorus notatus* Cass. Proc. Acad. Nat. Sci. Phila., 1856, p. 159.

17,113. ♂ Moonda river, W. Africa. DuChaillu. *Type*.

17,115. ♀ Moonda river, W. Africa. DuChaillu.

**Xenocichla leucopleurus** (Cass.).

*Phyllostrophus leucopleurus* Cass. Proc. Acad. Nat. Sci. Phila., 1855, p. 328.

17,031. River Muni, W. Africa. DuChaillu. *Type*.

**Xenocichla indicator** (Verr.).

*Tricophorus leucurus* Cass. Proc. Acad. Nat. Sci. Phila., 1855, p. 328.

The type of this species cannot be found.

**Criniger tricolor** (Cass.).

*Tricophorus tricolor* Cass. Proc. Acad. Nat. Sci. Phila., 1857, p. 33.

17,012. Muni river, W. Africa. DuChaillu. *Type*.

17,013. Muni river, W. Africa. DuChaillu.

**Criniger xanthogaster** Cass.

- Criniger xanthogaster* Cass. Proc. Acad. Nat. Sci. Phila., 1855, p. 327.  
 17,022. Moonda river, W. Africa. DuChaillu. *Type*.  
 17,023. Moonda river, W. Africa. DuChaillu.  
 17,024. Moonda river, W. Africa. DuChaillu.

**Criniger calurus** (Cass.).

- Tricophorus calurus* Cass. Proc. Acad. Nat. Sci. Phila., 1856, p. 158.  
 16,997. Muni river, W. Africa. DuChaillu. *Type*.  
 16,998. Muni river, W. Africa. DuChaillu.

**Criniger chloronotus** (Cass.).

- Tricophorus chloronotus* Cass. Proc. Acad. Nat. Sci. Phila., 1859, p. 43.  
 16,996. Camma river, W. Africa. DuChaillu. *Type*.  
 16,995. Camma river, W. Africa. DuChaillu.

**Andropadus curvirostris** Cass.

- Andropadus curvirostris* Cass. Proc. Acad. Nat. Sci. Phila., 1859, p. 46.  
 16,993. Camma river, W. Africa. DuChaillu. *Type*.  
 16,994. Camma river, W. Africa. DuChaillu.

**Andropadus virens** Cass.

- Andropadus virens* Cass. Proc. Acad. Nat. Sci. Phila., 1857, p. 34.  
 16,989. ♂ Muni river, W. Africa. DuChaillu. *Type*.  
 16,988. ♀ Muni river, W. Africa. DuChaillu.

**Alethe castanea** (Cass.).

- Napothera castanea* Cass. Proc. Acad. Nat. Sci. Phila., 1856, p. 158.  
 16,894. Camma river, W. Africa. DuChaillu.  
 16,528. Camma river, W. Africa. DuChaillu.

**Geocichla compsonota** Cass.

- Geocichla compsonota* Cass. Proc. Acad. Nat. Sci. Phila., 1859, p. 42.  
 16,250. ♂ Camma river, W. Africa. DuChaillu. *Type*.

## CASSIN'S TYPES FROM ASIA, AUSTRALIA, ETC.

**Zapornia tabuensis** (Gm.).

- Zapornia umbrina* Cass. Proc. Acad. Nat. Sci. Phila., 1856, p. 255.  
 Type in U. S. National Museum (Coll. Expl. Exped.).

**Megascops sagittatus** (Cass.).

- Ephialtes sagittatus* Cass. Proc. Acad. Nat. Sci. Phila., 1848, p. 121.  
 2,410. Malacca. Rivoli coll. *Type*.

**Megascops elegans** (Cass.).

- Ephialtes elegans* Cass. Proc. Acad. Nat. Sci. Phila., 1852, p. 185.  
 2,418. Off coast of Japan, lat. 29° 47' N., long. 126° 13' 30'' E. From Verreaux. *Type*.

**Carpophaga paulina** Bp.<sup>19</sup>

- Carpophaga rufinuchalis* Cass. Proc. Acad. Nat. Sci. Phila., 1854, p. 223  
 13,160. Rivoli coll. No data. *Type*.

**Carpophaga vanwycki** Cass.

- Carpophaga vanwyckii* Cass. Proc. Acad. Nat. Sci. Phila., 1862, p. 320

<sup>19</sup> Bonaparte's description appeared Nov. 8. Cassin's Dec. (after the 19th).

Type in U. S. National Museum (Coll. Expl. Exped.).

**Carpophaga pickeringii** Cass.

*Carpophaga pickeringii* Cass. Proc. Acad. Nat. Sci. Phila., 1854, p. 228.

Type in U. S. National Museum (Coll. Expl. Exped.).

**Globicera rubricera** Bp.<sup>20</sup>

*Carpophaga lepida* Cass. Proc. Acad. Nat. Sci. Phila., 1854, p. 230.  
13,159. Off north coast of Australia. From Edw. Wilson. *Type*.

**Prioniturus flavicans** Cass.

*Prioniturus flavicans* Cass. Proc. Acad. Nat. Sci. Phila., 1853, p. 373.  
24,492. ♀ Celebes. Rivoli coll. *Type*.

**Palæornis calthropæ** Layard.

*Palæornis viridicollis* Cass. Proc. Acad. Nat. Sci. Phila., 1853, p. 373.  
22,699. ♂ India. From Edw. Wilson. *Type*.  
22,698. Himalayas.

**Alcyone lessoni** Cass.

*Alcyone lessoni* Cass. Proc. Acad. Nat. Sci. Phila., 1850, p. 69.  
21,239 ♂ Havre d'Dory. New Guinea. From Edw. Wilson. *Type*.

**Micropus leucopygialis** (Cass.).

*Cypselus leucopygialis* Cass. Proc. Acad. Nat. Sci. Phila., 1850, p. 58.  
19,482. ♀ Sumatra (?) From Edw. Wilson. *Type*.

This may be identical with *M. subfurcatus* Blyth (= *affinis* Strick.), but Cassin states distinctly that it is not.

**Schlegelia wilsonii** (Cass.).

*Paradisca wilsonii* Cass. Proc. Acad. Nat. Sci. Phila., 1850, p. 67.  
3,152. ♂ New Guinea (?) Rivoli coll. *Type*.

This specimen is stated by Selater (*P. Z. S.*, 1857, p. 2) to have been the type of Bonaparte's *res-publica*, but in view of his wretched description it is best to adopt Cassin's name.

**Rhipidura cyaniceps** (Cass.).

*Muscipeta cyaniceps* Cass. Proc. Acad. Nat. Sci. Phila., 1855, p. 438.  
Type in U. S. National Museum (Coll. Expl. Exped.).

**Melanopyrrhus anais** Bp.

*Pastor nigrocinctus* Cass. Proc. Acad. Nat. Sci. Phila., 1850, p. 68.  
16,020. New Guinea. J. G. Bell. *Type*.

**Uroloncha fuscans** (Cass.).

*Spermestes fuscans* Cass. Proc. Acad. Nat. Sci. Phila., 1852, p. 135.  
14,584. ♀ Borneo. Rivoli coll. *Type*.

**Acrulocercus braccatus** (Cass.).

*Mohoa braccata* Cass. Proc. Acad. Nat. Sci. Phila., 1855, p. 440.  
18,581. Hawaiian Isl. J. K. Townsend. *Type*.

<sup>20</sup> Bonaparte's descriptions appeared Nov. 8. Cassin's Dec. (after the 19th).

**Hirundo badia** (Cass.).*Cecropis badius* Cass. Proc. Acad. Nat. Sci. Phila., 1853, p. 371.15,786. Malacca, from J. G. Bell. *Type*.

15,787. Malacca, from J. G. Bell.

**Atticora tibialis** (Cass.).*Petrochelidon* (?) *tibialis* Cass. Proc. Acad. Nat. Sci. Phila., 1853, p. 370.15,742. S. America. Rivoli coll. *Type*.

15,743, juv. Brazil. Rivoli coll.

**Tachycineta leucorrhoa** Vieill.*Hirundo gouldii* Cass. Proc. Acad. Nat. Sci. Phila., 1859, p. 69.

Proposed for *H. frontalis* Gould, which was preoccupied by *H. frontalis* Q. and G.

15,631. Australia. Gould coll. *Type*.**Locustella lanceolata** (Temm.) (?)*Lusciniopsis hendersonii* Cass. Proc. Acad. Nat. Sci. Phila., 1858, p. 194.30,069. Hakodadi, Japan. Mr. A. A. Henderson. *Type*.**Locustella ochotensis** (Midd.) (?)*Lusciniopsis japonica* Cass. Proc. Acad. Nat. Sci. Phila., 1858, p. 193.30,068. Hakodadi, Japan. Mr. A. A. Henderson. *Type*.

This is probably a distinct species, as suggested by Stejneger (*Proc. U. S. Nat. Mus.*, 1893, p. 634).

## TITIAN R. PEALE.

Peale's descriptions of new birds are confined, so far as I am aware, to the Ornithological and Mammalogical *Report of the U. S. Exploring Expedition*, he being one of the naturalists composing the party. A good deal of obscurity seems to envelop the history of this publication. It is quite a rare volume.

Some light is shed on the matter, however, by an article in Jardine's *Contributions to Ornithology*, 1852, p. 89. It is here stated that only one hundred copies of the *Reports* were issued by the Government, but each author was permitted to order as many more as he chose for his "personal benefit." All the contributors availed themselves of this privilege, with the single exception of Peale, but not one extra copy of his volume was issued, and the work was never for sale.

About ninety of the hundred copies were distributed by the Government, and the rest were destroyed by fire. Subsequently Cassin was engaged to prepare a new edition of the work, and an atlas of plates was issued to accompany it. No plates were issued with Peale's report, though reference is made to plates in the text, and

it is probable that many at least of the plates accompanying Cassin's report were originally intended for Peale's, but were held back when it was decided to republish the work.

The new edition was desirable for many reasons, especially from the fact that of the 109 new species described by Peale only about thirty-three were entitled to recognition.

It has been claimed by some that he was denied the opportunity of consulting the collection at Philadelphia, but in any case his report is a notorious addition to ornithological synonymy.

While most of Peale's types remain in the National Museum, some of them were presented to the Philadelphia Academy.

A few more of these types are also in the Academy collection, being contained in the collection made by J. K. Townsend in Hawaii. Peale used this material, as most of the Hawaiian specimens obtained by the Exploring Expedition were lost in the wreck of the *Peacock*.

The following list includes all of Peale's types now in the Academy collection. In some cases specimens of the same species are preserved in the National Museum:

***Onychotes solitarius* (Peale).**

*Buteo solitarius* Peale. Birds U. S. Expl. Exp., 1848, p. 62.

2,304. Hawaii. J. K. Townsend. *Type*.

***Accipiter rufitorques* (Peale).**

*Aster rufitorques* Peale. Birds U. S. Expl. Exp., 1848, p. 68.

1,227, ad. Feejee Isls. U. S. Expl. Exp. *Type* (?)

1,228, juv. Feejee Isls.

There seem to have been at least five specimens of this bird collected by the Expedition.

***Ptilinopus coralensis* Peale.**

*Ptilinopus coralensis* Peale. Birds U. S. Expl. Exp., 1848, p. 190.

13,098. Paumotu Isl. U. S. Expl. Exp. T. R. Peale. *Type*.

13,099. Paumotu Isl. U. S. Expl. Exp. T. R. Peale.

Manuscript notes in the Academy's copy of Peale's *Report* apparently indicate the number of specimens of many of the species which were obtained. There were three of this form.

***Ptilinopus fasciatus* Peale.**

*Ptilinopus fasciatus* Peale. Birds U. S. Expl. Exp., 1848, p. 193.

13,080. Samoa Isl. U. S. Expl. Exp. T. R. Peale. *Type*.

Apparently there were three specimens obtained. The above is an adult, like the one described, and is probably the type.

**Ptilinopus perousei** (Peale).

*Ptilinopus perousei* Peale. Birds U. S. Expl. Exp., 1848, p. 195.  
13,096. Feejee Isls. U. S. Expl. Exp. T. R. Peale. *Type*.

Three specimens obtained, but the above is evidently the type, as can be seen by comparison with the original description.

**Ptilinopus purpuratus** (Gm.).

*Ptilinopus furcatus* Peale. Birds U. S. Expl. Exp., 1848, p. 191.  
13,140. Society Isls. U. S. Expl. Exp. T. R. Peale.

Three specimens were obtained, and as the above is a dull-colored, immature bird, and does not agree very well with the description, one of the National Museum specimens had better be regarded as the type.

**Globicera auroræ** (Peale).

*Carpophaga auroræ* Peale. Birds U. S. Expl. Exp., 1848, p. 201.

Only one of the four specimens collected by the expedition is in the Academy (13,156). The type is one of the Washington specimens.

**Carpophaga latrans** Peale.

*Carpophaga latrans* Peale. Birds U. S. Expl. Exp., 1848, p. 200.  
13,189. Feejee Isls. U. S. Expl. Exp. T. R. Peale. *Type*.

Two specimens seem to have been obtained. This one is a male and agrees well with the description.

**Columba castaneiceps** Peale.

*Columba castaneiceps* Peale. Birds U. S. Expl. Exp., 1848, p. 187.  
13,285. Upolu, Samoa. U. S. Expl. Exp. T. R. Peale. *Type*.  
13,286. Upolu, Samoa. U. S. Expl. Exp. T. R. Peale.

Only two specimens were secured on the expedition.

**Todirhamphus recurvirostris** Lafr.

*Dacelo minima* Peale. Birds U. S. Expl. Exp., 1848, p. 159.  
21,418. ♂ Upolu, Samoa. U. S. Expl. Exp. T. R. Peale.

**Halcyon sacer** (Gm.).

*Dacelo coronata* Peale. Birds U. S. Expl. Exp., 1848, p. 160.  
21,429. Samoa Islands. U. S. Expl. Exp. T. R. Peale.  
*Dacelo citiensis* Peale. Birds U. S. Expl. Exp., 1848, p. 156.  
21,430. Tongataboo. U. S. Expl. Exp. T. R. Peale.

I have no means of ascertaining how many specimens of Kingfishers were obtained. The Washington examples are as likely to be the types as the above.

**Corvus hawaiiensis** Peale.

*Corvus hawaiiensis* Peale. Birds U. S. Expl. Exp., 1848, p. 106.  
2,830. Hawaii. J. K. Townsend. *Type*.  
2,831. Hawaii. J. K. Townsend.

**Myzomela nigriventris** Peale.

*Myzomela nigriventris* Peale. Birds U. S. Expl. Exp., 1848, p. 150.  
18,209. Samoan Isl. U. S. Expl. Exp. T. R. Peale.

Four of these were collected.

**Myzomela jugularis** Peale.

*Myzomela jugularis* Peale. Birds U. S. Expl. Exp., 1848, p. 150.  
18,223. Feejee Isls. U. S. Expl. Exp. T. R. Peale.

Four specimens of this species were in the collection.

## SIR WM. JARDINE AND H. E. STRICKLAND.

Many of the birds purchased for the Academy in Europe by Mr. Edward Wilson were submitted to Jardine and Strickland, who were also allowed to publish any which were undescribed in the *Contributions to Ornithology*. The types, of course, were returned to Mr. Wilson. A few species were loaned to Selater for description in the same publication.

**Monacha flavirostris** (Strickl.).

*Monasa flavirostris* Strickl. Contr. Orn., 1850, p. 47.  
20,822. Peru. Type.

**Heterocercus lineatus** (Strickl.).

*Elenia lineata* Strickl. Contr. Orn., 1850, p. 121.  
8,550. ♂ Upper Amazon. Type.

**Icterus prothemelas** (Strickl.).

*Xanthornis prothemelas* Strickl. Contr. Orn., 1850, p. 120.  
3,457. Type.

**Tachyphonus rufiventer** Spix.

*Tachyphonus serrirostris* Strickl. Contr. Orn., 1850, p. 49.  
7,659. Type.

**Todirostrum chrysocrotaphum** Strickl.

*Todirostrum chrysocrotaphum* Strickl. Contr. Orn., 1850, p. 48.  
4,177. ♂ Peru. Edw. Wilson. Type.

**Pachycephala orpheus** Jardine.

*Pachycephala orpheus* "Verr. MSS." Jardine. Contr. Orn., 1849, p. 129.  
15,270. ♀ Timor, from Verreaux. Type.

**Pachycephala macrorhyncha** Strickl.

*Pachycephala macrorhyncha* Strickl. Contr. Orn., 1849, p. 91.  
15,222. ♂ "Amboine," from Verreaux. Type.

This is distinct from *P. melanura*, with which it is united in the British Museum *Catalogue*.

**Pericrocotus minutus** Strickl.

*Pericrocotus minutus* Strickl. Contr. Orn., 1849, p. 94.  
498. ♀ Borneo, from Verreaux. Dr. Wilson.  
499. ♂ Borneo, from Verreaux. Dr. Wilson.  
500. ♂ Borneo, from Verreaux. Dr. Wilson. Type.

**Euphonia rufiventris** (Vieill.).*Euphonia bicolor* Strickl. Contr. Orn., 1850, p. 48.7,130. ♂ Peru. Edw. Wilson. *Type*.**Trichostoma rostratum** Blyth.*Trichostoma umbratile* Strickl. Contr. Orn., 1849, p. 126.

17,383. Borneo.

**Trichostoma celebense** Strickl.*Trichostoma celebense* Strickl. Contr. Orn., 1849, p. 127.17,370. Celebes, from Verreaux. *Type*.**Amuropsis malaccensis** (Hartl.).*Brachypteryx poliogenis* "Boie" Strickl. Contr. Orn., 1849, p. 93.17,415. Borneo. From Edw. Wilson. *Type*.

## JULES AND EDWARD VERREAUX.

Edward Wilson obtained a number of specimens from Verreaux brothers, the famous French bird dealers, and quite a number of these were types of Verreaux's species.

The Verreauxs had the unfortunate practice of sending out specimens with manuscript names which were often never published. Many specimens loaned to Strickland by Mr. Wilson were of this character, and, when describing any of them as new species, to avoid confusion he nearly always adopted Verreaux's manuscript names. In the case of a small collection from the interior of Gaboon, however, the Verreauxs, unknown to Strickland, published all the new species in the *Revue et Magasin de Zoologie*, while the latter published them almost simultaneously in the *Contributions to Ornithology*, fortunately using the supposed manuscript names which he found on the labels. These doubly type(!) specimens are as follows :

**Hoploterus dinghani** (Verr.).*Chettusia dinghani* Verr. Rev. et Mag. de Zool., 1855.11,677. S. Africa. Rivoli coll. *Type*.**Excalfactoria adansoni** (Verr.).*Coturnix adansoni* Verr. Rev. et Mag. de Zool., 1851, p. 515.12,339. ♀ Gaboon. *Type*.**Turturæna malherbii** (Verr.).*Columba malherbii* Verr. Rev. et Mag. de Zool., 1851, p. 514.13,459. Gaboon. *Type*.

A specimen of this bird received by the British Museum from Verreaux is catalogued as "probably the type." This is an error, as the Academy specimen is marked "type" by Verreaux.

**Trachyphonus purpuratus** (Verr.).

*Trachyphonus purpuratus* Verr. Rev. et Mag. de Zool., 1851, p. 260.  
20,599. ♂ Interior of Gaboon. *Type*.

**Dendropicus gabonensis** (Verr.).

*Dendrobates gabonensis* Verr. Rev. et Mag. de Zool., 1851, p. 513.  
19,359. ♂ W. Africa. *Type*.

**Melittophagus variegatus** (Vieill.).

*Melittophagus cyanipectus* Verr. Rev. et Mag. de Zool., 1851, p. 269.  
21,514. ♂ Gaboon. *Type*.  
21,532. juv. Gaboon.

**Halcyon badia** Verr.

*Halcyon badia* Verr. Rev. et Mag. de Zool., 1851, p. 264.  
21,307. Gaboon. *Type*.

**Barbatula leucolaima** Verr.

*Barbatula leucolaima* Verr. Rev. et Mag. de Zool., 1851, p. 263, co. ii  
1851.  
20,680. Gaboon. *Type*.

**Barbatula subsulphurea** (Fraser).

*Barbatula flavimenta* Verr. Rev. et Mag. de Zool., 1851, p. 262.  
20,676. Gaboon. *Type*.

**Lamprocolius purpureiceps** Verr.

*Lamprocolius purpureiceps* Verr. Rev. et Mag. de Zool., 1851, p. 418.  
16,005. Interior of Gaboon. *Type*.

**Dryoscopus sabinæ** (Gray).

*Hapalophus melanoleucus* Verr. Rev. et Mag. de Zool., 1851, p. 512.  
15,173. ♂ Interior of Gaboon. *Type*.

**Dryoscopus coracinus** Verr.

*Dicrourus coracinus* Verr. Rev. et Mag. de Zool., 1851, p. 311.  
256. ♂ Interior of Gaboon. *Type*.

This has been treated as a synonym of *D. modestus* Hartl, but may prove separable. The type of *modestus* is from Prince's Island.

**Nigrita luteifrons** Verr.

*Nigrita luteifrons* Verr. Rev. et Mag. de Zool., 1851, p. 420.  
14,477. ♂ Gaboon. *Type*.

**Chelidon griseopyga** Sund.

*Atticora melbina* Verr. Rev. et Mag. de Zool., 1851, p. 310.  
15,682. Gaboon. *Type*.

**Anthothreptes aurantium** Verr.

*Anthreptes aurantium* Verr. Rev. et Mag. de Zool., 1851, p. 417.  
18,175. ♂ Interior of Gaboon. *Type*.

**Cinnyris johannæ** (Verr.).

*Cinnyris johannæ* Verr. Rev. et Mag. de Zool., 1851, p. 314.  
18,176. Interior of Gaboon. *Type*.

**Hyliota violacea** Verr.*Hyliota violacea* Verr. Rev. et Mag. de Zool., 1851, p. 303.

786. ♂ Gaboon. Type.

**Ixonotus guttatus** Verr.*Ixonotus guttatus* Verr. Rev. et Mag. de Zool., 1851, p. 306.

17,091. Gaboon. Type.

**Pratincola salax** Verr.*Pratincola salax* Verr. Rev. et Mag. de Zool., 1851, p. 307.

722. ♂ Gaboon. Type.

Given as *P. olax* Verr., "MS." by Strickl.

## OTHER TYPES OF VERREAUX.

**Pœocephalus fuscicapillus** (Verr. and Des Murs).*Pionus fuscicapillus* Verr. et Des Murs. Rev. et Mag. de Zool., 1849, p. 58.

22,632. ♀ Zanzibar. Rivoli coll.

22,633. ♂ Zanzibar. Rivoli coll. Type.

**Palæornis modesta** Fras.*Palæornis luciane* Verr. Rev. et Mag. de Zool., 1850, p. 593.

22,697. ♂ "Moluccas." From Verreaux. Type.

## F. DE LAFRESNAYE.

Among the collections purchased by Dr. Wilson in Paris was that of M. Delatre, obtained in Peru, Bolivia, Colombia and Panama. This contained many novelties, and these were submitted to Lafresnaye for publication before the collection was shipped to America. His paper appeared in the *Revue Zoologique*, March, 1847, pp. 67-79, and in it eighteen new species were proposed. The types of all of these are preserved in the collection, and their study proves of interest, as some of Lafresnaye's names seem to have been entirely overlooked.

**Grallaria monticola** Lafr.*Grallaria monticola* Lafr. Rev. Zool., 1847, p. 68.

8,199. Ecuador. Delatre coll. Type.

**Hypocnemis nævioides** (Lafr.).*Conopophaga nævioides* Lafr. Rev. Zool., 1847, p. 69.

8,583. S. America. Delatre coll. Type.

**Ochthæca frontalis** (Lafr.).*Tyrannula frontalis* Lafr. Rev. Zool., 1847, p. 70.

4,083. ♂ Pasto "Peru." Delatre coll. Type.

Lafresnaye's excellent description seems to have been entirely overlooked and the bird has gone by the name of *O. citrinifrons* Sclater, *P. Z. S.*, 1862, p. 113, which must, however, become of a synonym of *O. frontalis* Lafr.

**Pœcilothraupis palpebrosa** (Lafr.).*Tanagra palpebrosa* Lafr. Rev. Zool., 1847, p. 71.7,374. ♂ Peru. Delatre coll. *Type*.**Calospiza nigrocincta** (Bp.).*Aglaja wilsonii* Lafr. Rev. Zool., 1847, p. 71.7,275. ♂ Peru. Delatre coll. *Type*.**Calospiza larvata fanny** (Lafr.).*Aglaja fanny* Lafr. Rev. Zool., 1847, p. 72.7,277. ♀ Delatre coll. *Type*.**Tachyphonus delatrii** Lafr.*Tachyphonus delatrii* Lafr. Rev. Zool., 1847, p. 72.7,660. ♂ St. Bonaventure. Delatre coll. *Type*.**Arremon aurantirostris** Lafr.*Arremon aurantirostris* Lafr. Rev. Zool., 1847, p. 72.7,789. ♂ Panama. Delatre coll. *Type*.**Saltator albicollis** Vieill.*Saltator striatipictus* Lafr. Rev. Zool., 1847, p. 73.7,852. ♂ N. Grenada. Delatre coll. *Type*.**Saltator albicollis** Vieill.*Saltator maculipectus* Lafr. Rev. Zool., 1847, p. 73.7,924. ♀ Delatre coll. *Type* (?).

This is apparently the *type* of this species, though most of the data have been lost.

**Cardinalis phœnicurus granadensis** (Lafr.).*Cardinalis granadensis* Lafr. Rev. Zool., 1847, p. 74.9,962. ♂ N. Grenada. Delatre coll. *Type*.

This name has been entirely overlooked. Mr. Robert Ridgway considers it a distinct race from the *C. phœnicurus* of Venezuela.

**Guiraca cyanoides** Lafr.*Coccyborus cyanoides* Lafr. Rev. Zool., 1847, p. 74.9,775. ♀ Panama. Delatre coll. *Type*.**Sporophila analoides** (Lafr.).*Linaria analoides* Lafr. Rev. Zool., 1847, p. 75.9,914. ♂ Lima, Peru. Delatre coll. *Type*.**Sporophila inornata** (Lafr.).*Linaria inornata* Lafr. Rev. Zool., 1847, p. 75.9,818. ♂ Bolivia. Delatre coll. *Type*.**Geositta peruviana** Lafr.*Geositta peruviana* Lafr. Rev. Zool., 1847, p. 75.6,784. ♀ Lima, Peru. Delatre coll. *Type*.**Dendroplex picirostris** Lafr.*Dendroplex picirostris* Lafr. Rev. Zool., 1847, p. 76.6,979. N. Grenada. Delatre coll. *Type*.

**Picumnis granadensis** Lafr.*Picumnis granadensis* Lafr. Rev. Zool., 1847, p. 78.19,751. N. Granada. Delatre coll. *Type*.

19,757. [N. Granada.] Delatre coll.

**Malacoptila panamensis** Lafr.*Malacoptila panamensis* Lafr. Rev. Zool., 1847, p. 79.20,805. juv. ♂ Panama. Delatre coll. *Type*.

## LAFRESNAYE AND D'ORBIGNY.

The types of the species usually credited to the above authors are generally admitted to be the specimens in the Boston Society of Natural History contained in the Lafresnaye collection.

There are, however, specimens of many of them in the Academy collection, which were originally in D'Orbigny's collection, and subsequently in that of Prince Massena, Duc of Rivoli. These were regarded by Cassin as types, and while they probably have not as good a claim as those in the Boston Society they are in any case paratypes, and are valued accordingly.

Such specimens as are clearly labeled "D'Orbigny's Collection" are the following, though there are doubtless others among the Rivoli specimens:

13,508. *Columbigallina cruziana* (d'Orb.). "Zacua No. 17, d'Orbigny."6,998. *Dendrornis*. Chiquitos. d'Orbigny.6,999. *Dendrornis*. Chiquitos. d'Orbigny.3,775. *Ostinops atrovirens* (d'Orb.). "Yungas, No. 61, d'Orbigny."10,647. *Emberizagra olivascens* (d'Orb.). "Suarba, No. 95, d'Orbigny."10,646. *Emberizagra olivascens* (d'Orb.). "Esquichia, No. 95, d'Orbigny."10,626. *Poospiza hypochondria* (d'Orb.). S. America, "No. 98, d'Orbigny."10,627. *Poospiza hypochondria* (d'Orb.). "Chiquitos, No. 98, d'Orbigny."10,621. *Poospiza melanoleuca* (d'Orb.). "Chiquitos, No. 114, d'Orbigny."10,622. *Poospiza melanoleuca*. No. 114, d'Orbigny.10,713. *Schistospiza griseocristata* (d'Orb.). "No. 104, d'Orbigny."10,714. *Schistospiza griseocristata* (d'Orb.). "No. 114, d'Orbigny."MASSENA AND SONANCE.<sup>1</sup>

Apparently Prince Massena continued to collect specimens of the *Psittacidae* after the disposal of his main collection to Dr. Wilson, as in the *Revue et Magasin de Zoologie* for 1854, p. 71, there is a paper under the joint authorship of Massena and Sonancé<sup>21</sup> in

<sup>21</sup> Though both names appear as authors, Massena is given as authority for all the species.

which are described nine new Parrots, while in the same journal for 1856 there is a Catalogue of Parrots in the Massena collection, by M. Sonancé, in which two hundred and eighteen species are enumerated, some being described as new.

The types of these latter species seem to have been purchased by the British Museum, as with a few exceptions they are all listed in the *Catalogue of Birds in the British Museum*, Vol. xx. The Academy has no specimens of them from the Massena collection.

Specimens of all but three of the species described in the former of the papers above mentioned are, however, in the Academy's collection labeled as types of "Massena and Sonancé."

As the original manuscript catalogue contains these specimens it would seem that they were shipped about the same time as the rest of the collection, which reached Philadelphia in 1846, in which case the labels must have been written long before the names were published. It is possible, however, that they were not sent over until after the paper by Massena and Sonancé was prepared.

In any case, the specimens have practically as much claim to being considered the types as those in the British Museum, and a list of them is therefore appended.

**Ara auricollis** Cass.

*Ara auritorques* Mass. Rev. et Mag. de Zool., 1854, p. 71.

22,358. ♂ S. America. Rivoli coll. *Type*.

22,359. ♂ S. America. Rivoli coll.

No type of this is in the British Museum.

**Gnathosittacea icterotis** (Mass.).

*Conurus icterotis* Mass. Rev. et Mag. de Zool., 1854, p. 71.

Type in British Museum. No specimen in the Academy collection.

**Conurus rubrolarvatus** Mass.

*Conurus rubrolarvatus* Mass. Rev. et Mag. de Zool., 1854, p. 71.

22,348. ♂ Guayaquil. Rivoli coll. *Type*.

A type also in British Museum (*Cat. of Bds.*, xx, p. 183).

**Conurns æruginosus** (L.).

*Conurus chrysogenys* Mass. Rev. et Mag. de Zool., 1854, p. 72.

22,333. ♀ Colombia. Rivoli coll. *Type*.

A specimen is also in the British Museum (*Cat. of Bds.*, xx, p. 197), which is evidently one of the type lot, though not so marked by the compiler.

***Pyrrhura calliptera* (Mass.).***Conurus callipterus* Mass. Rev. et Mag. de Zool., 1854, p. 72.

22,385. ♀ Bogota. Rivoli coll.

22,386. ♀ Bogota. Rivoli coll.

22,387. ♂ Bogota. Rivoli coll. *Type*.

No Massena specimen is in the British Museum collection.

***Pyrrhura devillei* (Mass.).***Conurus devillei* Mass. Rev. et Mag. de Zool., 1854, p. 73.

There is no specimen of this bird in the Academy.

The type is in the British Museum (*Cat. of Bds.*, xx, p. 227).***Pyrrhura molinæ* (Mass.).***Conurus molinæ* Mass. Rev. et Mag. de Zool., 1854, p. 73.

22,388. ♀ (?) Chiquitos. Rivoli coll.

22,389. ♂ (?) Chiquitos. Rivoli coll. *Type*.A type is in the British Museum (*Cat. of Bds.*, xx, p. 227).***Pionus selinoides* (Mass.).***Psittacus selinoides* Mass. Rev. et Mag. de Zool., 1854, p. 73.22,542. ♂ Bogota. Rivoli coll. *Type*.A type is in the British Museum (*Cat. of Bds.*, xx, p. 226).***Pionus cobaltinus* (Mass.).***Psittacus cobaltinus* Mass. Rev. et Mag. de Zool., 1854, p. 74.22,536. juv. ♂ S. America. Rivoli coll. *Type*.A type is in the British Museum (*Cat. of Bds.*, xx, p. 325).

## JOHN GOULD.

As already explained, Dr. Wilson secured Gould's entire collection of Australian birds, including nearly all of the types of species described up to and including the seventh volume of his *Birds of Australia*. The types of the species described in the supplement, as well as such additional specimens as were procured after Dr. Wilson's purchase, went to the British Museum. Several specimens apparently from this subsequent collection are given in the *Catalogue of Birds*, as *types* of species described long before Dr. Wilson's purchase, whereas the Academy specimens have the better claim, the others being, so far as I can judge, topotypes secured some time afterward. There is no reason to suppose that Gould withheld any of the specimens he possessed at the time of the sale.

Gould's collection, after purchase, was sent to Verreaux for mounting, and the original labels were removed, and their contents (or part of it) transcribed on the base of the stands, every speci-

men being marked "Type. Gould's *Birds of Australia*," no matter whether the species was Gould's or not!

Gould's original descriptions were for the most part published in the *Proceedings of the Zoological Society*, and are generally very meagre, so that it is impossible to tell how many of the numerous "type specimens" of each species he had at the time he prepared the diagnoses.

By careful study and comparison with the original descriptions it is possible to select the specimen which agrees in plumage, measurements and locality with the description in nearly every case, and such ones I have designated as the types.

Of the 391 names proposed by Gould for Australian birds (including those published in his *Handbook*) the types of 321 are in the Academy collection. Of the rest, fifty-six are in the British Museum, or other collections stated by Gould, while of fourteen the actual type seems to have been lost, though paratypes or cotypes are still preserved in the Academy.

A complete manuscript catalogue of the Gould Australian specimens has been prepared, and may be published at some future time.

Below are given such of his types from localities other than Australia as are preserved in the Academy collection:

***Nestor productus* (Gould).**

*Ptyctolophus productus* Gould, P. Z. S., 1836, p. 19.

22,082. New Zealand. Gould coll. Type.

***Ramphastos brevicarinatus* Gould.**

*Ramphastos brevicarinatus* Gould. Mon. Ramph., ii Ed., pl. iii (1854).

20,375. Mexico. Rivoli coll. Type.

***Ramphastos citreolæmus* Gould.**

*Ramphastos citreolæmus* Gould. P. Z. S., 1843, p. 147.

20,391. Bogota. Rivoli coll. Type.

***Todirhamphus recurvirostris* Lafr.**

*Halcyon platyrostris* Gould, P. Z. S., 1842, p. 72.

21,449. Navigator Islands. J. Gould. Type.

***Chamæza nobilis* Gould.**

*Chamæza nobilis* Gould. Ann. and Mag. Zool., xv, 2d Series, 1855, p. 344.

8,517. Peru. "No. 2 *Chamæza nobilis*, sp. nov., Gould. Type."

The above data are in Gould's hand. The British Museum *Catalogue* contains another specimen with the same data, which is recorded as the type.

**Heteralocha acutirostris** (Gould).*Neomorpha acutirostris* Gould. P. Z. S., 1836, p. 144.16,023. ♀ New Zealand. J. Gould. *Type*.*Neomorpha crassirostris* Gould. P. Z. S., 1836, p. 145.16,021. ♂ New Zealand. J. Gould. *Type*.

If we regard *Neomorpha* and *Neomorphus* as distinct names, *Neomorpha* should stand for this bird. Otherwise it is antedated by *Neomorphus* Gloger in the *Cuculidae*.

**Zosterops albigularis** Gould.*Zosterops albigularis* Gould. P. Z. S., 1836, p. 75.18,257. Norfolk Isl. J. Gould. *Type*.**Zosterops tenuirostris** Gould.*Zosterops tenuirostris* Gould. P. Z. S., 1836, p. 76.

18,255. Norfolk Isl. J. Gould.

18,256. Norfolk Isl. J. Gould.

**Petroica multicolor** (Gm.).*Petroica modesta* Gould. P. Z. S., 1837, p. 147.662. ♀ Norfolk Isl. J. Gould. *Type*.*Petroica pulchella* Gould. P. Z. S., 1839, p. 142.661. ♂ Norfolk Isl. J. Gould. *Type*.

## SIR A. SMITH.

A number of specimens received from Jules Verreaux are marked by him both on the stands and in the catalogue "Type de Smith," referring to the publications of Sir A. Smith in the *Report of the S. African Expedition* and *Illustrations of the Zoölogy of South Africa*. The types of most of Smith's species are recorded as being in the British Museum, but where this is not the case the Academy specimens must be considered as the types. No particulars are preserved as to how many of Smith's specimens Dr. Wilson procured.

In all cases the Academy specimens are cotypes, and I therefore give a full list of them below, which their importance seems to warrant.

Being unable to consult the *Rep. S. Afr. Exp.*, I quote the references from the British Museum *Catalogue of Birds*.

**Sarothrura elegans** (Smith).*Gallinula elegans* Smith. Ill. Zool. S. Afr., 1839, pl. 22.

6,291. ♂ Cape of Good Hope. "Type de Smith."

None of Smith's specimens are in the British Museum.

**Thalassornis leuconotus** (Eyt.).

*Clangula leuconota* "Smith." Eyt. Mon. Anat., 1833, p. 163.

5.517. ♂ Cape of Good Hope. "Type de Smith and Eyt."

Three specimens marked type are in the British Museum (*Cat. of Bds.*, xxvii, p. 438).

**Caprimulgus lentiginosus** Smith.

*Caprimulgus lentiginosus* Smith. Ill. Zool. S. Africa, 1845, pl. 101.

21,839. ♀ Cape of Good Hope. "Type de Smith."

Another type specimen is in the British Museum (*Cat. of Bds.*, xvi, p. 537).

**Caprimulgus rufigenus** Smith.

*Caprimulgus rufigena* Smith. Ill. Zool. S. Afr., 1845, pl. 100.

21,830. ♂ Cape of Good Hope. "Type de Smith."

21,831. ♀ Cape of Good Hope. "Type de Smith."

21,834. jr. ♂ Cape of Good Hope. "Type de Smith."

21,835. ♂ Cape of Good Hope. "Type de Smith."

Two specimens from Smith in the British Museum are not marked as types (*Cat. of Bds.*, xvi, p. 533).

**Caprimulgus natalensis** Smith.

*Caprimulgus natalensis* Smith. Ill. Zool. S. Afr., 1845, pl. 99.

21,884. ♀ Port Natal. "Type de Smith."

Two specimens marked type in British Museum (*Cat. of Bds.*, xvi, p. 564).

**Alæmon nivosa** (Sw.).

*Alauda lagepa* Smith. Ill. Zool. S. Afr., 1845, pl. 87, fig. 2.

14,729. ♂ Cape of Good Hope. "Type de Smith."

Two types in British Museum (*Cat. of Bds.*, xiii, p. 524).

**Alæmon semitorquata** (Smith).

*Certhilauda semitorquata* Smith. Rep. Exp. S. Afr., 1836, p. 47.

14,727. ♀ Cape of Good Hope. "Type de Smith" (fide Verreaux).

Type in British Museum (*Cat. of Bds.*, xiii, p. 522).

**Mirafrā africanoides** Smith.

*Mirafrā africanoides* Smith. Rep. Exp. S. Afr., 1836, p. 47.

14,764. ♂ Cape of Good Hope. "Type de Smith."

Type in British Museum (*Cat. of Bds.*, xiii, p. 616).

**Mirafrā sabota** Smith.

*Mirafrā sabota* Smith. Rep. Exp. S. Afr., 1836, p. 47.

14,761. ♂ Cape of Good Hope. "Type de Smith."

A specimen from Smith is in the British Museum, though it is not marked as the type (*Cat. of Bds.*, xiii, p. 618).

**Pyrrhulauda verticalis** (Smith).*Megalotis verticalis* Smith. Rep. Exp. S. Afr., 1836, p. 48.

14,865. ♀ Cape of Good Hope. "Type de Smith."

14,866. ♀ Cape of Good Hope. "Type de Smith."

14,871, juv. ♂ Cape of Good Hope. "Type de Smith."

14,850. ♂ Cape of Good Hope. "Type de Smith."

A specimen from Smith is also in the British Museum, but is not marked type (*Cat. of Bds.*, xiii, p. 656).

**Pyrrhulauda smithii** Bp. Consp. Av. 1, p. 512, 1850.*Pyrrhulauda leucotis* Smith (nec. Stanley).

14,872. ♀ Cape of Good Hope. "Type de Smith."

14,841, juv. ♀ Cape of Good Hope. "Type de Smith."

14,843. ♀ Cape of Good Hope. "Type de Smith."

14,848. ♂ Cape of Good Hope. "Type de Smith."

Based by Bonaparte on Smith's specimens. Two of these in British Museum are marked types (*Cat. of Bds.*, xiii, p. 658).

**Pyrrhulauda australis** (Smith).*Megalotis australis* Smith. Rep. Exped. S. Afr., 1836, App., p. 49.

14,874. ♀ Cape of Good Hope. "Type de Smith."

14,876. ♂ Cape of Good Hope. "Type de Smith."

A type specimen also in the British Museum (*Cat. of Bds.*, xiii, p. 652).

**Fringillaria tahapisi** (Smith).*Emberiza tahapisi* Smith. Rep. S. Afr. Exp., 1836, App., p. 48.

10,569. ♀ Cape of Good Hope. "Type de Smith."

10,574. ♂ Cape of Good Hope. "Type de Smith."

No Smith specimen in the British Museum.

**Fringillaria impetuani** (Smith).*Emberiza impetuani* Smith. Rep. S. Afr. Exp., 1836, App., p. 48.

10,578. ♂ Cape of Good Hope. "Type de Smith."

10,579. ♀ Cape of Good Hope. "Type de Smith."

Two types are also in the British Museum (*Cat. of Bds.*, xii, p. 564).

**Passer diffusus** (Smith).*Pyrgita diffusa* Smith. Rep. S. Afr. Exp., 1836, App., p. 50.

10,174. ♂ Cape of Good Hope. "Type de Smith."

10,165. ♂ Cape of Good Hope. "Type de Smith."

10,170. ♀ Cape of Good Hope. "Type de Smith."

Two types also in British Museum (*Cat. of Bds.*, xii, p. 337).

**Poliospiza gularis** (Smith).*Linaria gularis* Smith. Rep. S. Afr. Exp., 1836, App., p. 49.

10,070. ♀ Cape of Good Hope. "Type de Smith."

10,072. ♂ Cape of Good Hope.

Two specimens are in the British Museum, but are not marked as types (*Cat. of Bds.*, xii, p. 344).

*Serinus albogularis* (Smith).

*Crithaga albogularis* Smith. S. Afr. Quart. Jour., 1833, p. 43.

*Crithaga selbyi* Smith. Rep. S. Afr. Exp., 1836, App., p. 50.

10,246. ♂ Cape of Good Hope. "Type de Smith."

This specimen is marked as type of *C. selbyi*. There is also a specimen in the British Museum, but it is not marked type (*Cat. of Bds.*, xii, p. 360).

*Estrilda erythronota* (Vieill.).

*Estrela lipiniana* Smith. Rep. Expl. S. Afr., 1836, App., p. 49.

14,669. ♂ Cape of Good Hope. "Type de Smith."

14,671. ♀ Cape of Good Hope. "Type de Smith."

A specimen is in the British Museum, but not marked as the type (*Cat. of Bds.*, xiii, p. 398).

*Sporopipes squamifrons* (Smith).

*Estrela squamifrons* Smith. Rep. Exp. S. Afr., 1836, p. 49.

13,911. ♀ Cape of Good Hope. "Type de Smith."

Type in British Museum (*Cat. of Bds.*, xiii, p. 408).

*Lagonosticta brunneiceps* Sharpe. *Cat. of Bds.*, xiii, p. 277.

*Estrela vieillotti* Smith. [MSS. ?]

14,359. ♀ Cape of Good Hope. "Type de Smith."

I find no mention of this name of Smith's, but not having access to the *Rep. S. Afr. Exp.*, cannot ascertain whether it is published or not. If it is, it will, of course, antedate *brunneiceps* of Sharpe.

*Penthetriopsis macroura* (Gm.).

*Euplectus booriensis* Smith. [MSS. ?]

14,233. ♂ Cape of Good Hope. "Type de Smith."

14,292. ♀ Cape of Good Hope.

14,293. ♀ Cape of Good Hope.

This is another name which has apparently not been published, but I am unable to satisfy myself upon this point.

*Plocepasser mahali* Smith.

*Plocepasser mahali* Smith. Rep. Exp. S. Afr., 1836, App., p. 51.

14,256. ♂ Cape of Good Hope. "Type de Smith."

14,257. ♀ Cape of Good Hope. "Type de Smith."

Two types in British Museum (*Cat. of Bds.*, xiii, p. 246).

**Pyromelana taha** (Smith).*Euplectes taha* Smith. Rep. Exp. S. Afr., 1836, p. 50.

14,294. ♂ Cape of Good Hope. "Type de Smith."

14,296. ♂ Cape of Good Hope. "Type de Smith."

14,297. ♀ Cape of Good Hope. "Type de Smith."

14,298. ♀ Cape of Good Hope. "Type de Smith."

14,299. ♂ Cape of Good Hope. "Type de Smith."

Two types also in British Museum (*Cat. of Bds.*, xiii, p. 243).**Hyphantornis** Sp.?*Ploceus obscurus* Smith. [MSS. ?]

14,708. "♂" Cape of Good Hope. "Type de Smith."

14,027. "♂" Cape of Good Hope.

No. 14,027 is marked "*P. tahatali* Smith," but it is evidently this species. These birds seem to be a female and young of some large species of *Hyphantornis* with wing measuring 3.25 ins.

**Hyphantornis velatus** (Vieill.).*Ploceus tahatali* Smith. Rep. Exp. S. Afr., 1836, p. 50.

14,707. ♀ Cape of Good Hope. "Type de Smith."

A type specimen in the British Museum (*Cat. of Bds.*, xiii, p. 466).

**Hyphantornis velatus mariquensis** (Smith).*Ploceus mariquensis* Smith. Ill. Zool. S. Afr., 1845, pl. 103.

14,049. jun. ♂ Cape of Good Hope. "Type de Smith."

Series of types in the British Museum (*Cat. of Bds.*, xiii, p. 467).**Quelea quelea** (L.).*Loxia latharni* Smith. Rep. S. Afr. Exp., 1836, App., p. 51.

14,340. ♀ Cape of Good Hope. "Type de Smith."

14,345. ♀ Cape of Good Hope. "Type de Smith."

No type in British Museum.

**Philæterus socius** (Lath.).*Philæterus lepidus* Smith, in Charlesw. Mag., 1837, p. 536.

14,327. ♂ Cape of Good Hope. "Type de Smith."

14,333. jun. ♀ Cape of Good Hope.

Three types are in the British Museum (*Cat. of Bds.*, xiii, p. 250).

**Cinnyris mariquensis** Smith.*Cinnyris mariquensis* Smith. Rep. S. Afr. Exp., 1836, App., p. 53.

18,025. ♂ Cape of Good Hope. "Type de Smith."

18,026. ♀ Cape of Good Hope. "Type de Smith."

18,181. ♂ Cape of Good Hope. "Type de Smith."

No type in the British Museum.

**Cinnyris olivacea** Smith.

*Cinnyris olivacea* Smith. Ill. S. Afr. Zool., 1839, in text to pl. 57.  
18,037. ♂ Cape of Good Hope. "Type de Smith."

No type in British Museum.

**Cinnyris leucogaster** Vieill.

*Nectarinia talatala* Smith. Rep. Exp. S. Afr., 1836, App., p. 58.  
18,120. ♀ Cape of Good Hope. "Type de Smith."  
18,121. ♂ Cape of Good Hope. "Type de Smith."

No type in British Museum.

## OTHER AUTHORS.

A few types of other authors were contained in the collections purchased by Dr. Wilson, as given below :

**Cassicus montezumæ** (Less.).

*Cucicus montezumæ* Less. Cent. Zool., p. 33 (1830).  
3,769. Mexico. ♂ Type.

This specimen is stated by Cassin to be the type (*Proc. Acad. Nat. Sci. Phila.*, 1867, p. 71).

**Polyplectron napoleonis** Less.

*Polyplectron napoleonis* Less. Traité d'Orn., 1831, pp. 487, 650.  
12,732. "♂ des Isles de Indes (?) ou des Moloques."  
"Type de Less. et de Temm." Rivoli coll.

**Neorhynchus naseus** (Bp.).

*Neorhynchus peruvianus* Less. Gray Handlist Birds (1870), i, p. 107.  
9,811. "Perou. Type de la description de Lesson."

I cannot find the original place of publication of this species, and it may be only a manuscript name.

**Picathartes gymnocephalus** Temm.

*Corvus gymnocephalus* Temm. Pl. Col. 327.  
3,091. "Type de Temminck."

Apparently one of the specimens purchased by Dr. Wilson from Temminck's collection.

**Trogon meridionalis** Swains.

*Trogon affinis* Des. & Dev.  
21,003. ♂ Trinidad. Rivoli coll. "Type de Des. & Dev." (Verreaux).  
21,002. ♂ Cayenne. Rivoli coll. "Type de Des. & Dev."

I do not find the name *affinis*, and it seems to have existed only in manuscript.

**Ptilopus rivolii** Prev. & Knip.

*Columba rivolii* Prev. & Knip. Fig. II, pl. 57 (1838-43).  
13,119. Rivoli coll. "P. rivolii Prev., Original Specimen."

**Eupetomena macrurus** (Gm.).

*Trochilus hirundinaceus* "Vieill."

23,341. *Type* of Vieill. (fide Verreaux).

Vieillot called the bird "Oiseau-Mouche a queue fourchue de Cayenne," and it was Lesson who bestowed the name *hirundinaceus* upon it. Whether this is Lesson's type is perhaps questionable.

**Drymornis bridgesi** Eyt.

*Nasica bridgesi* Eyt. Contr. Orn., 1849, p. 130.

6,925. Bolivia (?). "*Type*."

The type of this species is recorded as being in the British Museum (*Cat. of Bds.*, xv, p. 157).

**Muscicapa lugens** (Hartl.).

*Muscicapa cassini* Heine. Jour. für Orn., 1860, p. 428.

619. ♂ Camma river, W. Africa. DuChaillu coll. *Type*.

620, juv. Camma river, W. Africa. DuChaillu coll.

Based on Cassin's description of the above specimens.